

TOSHIBA

Leading Innovation >>>

OWNER'S MANUAL

Integrated Digital LCD TV



**42XV600A
46XV600A
52XV600A**

Owner's Record

You will find the model number and serial number on the back of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your TOSHIBA dealer regarding this product.

Model number:

Serial number:

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Introduction

Welcome to Toshiba

- Thank you for purchasing this Toshiba LCD Colour TV. This manual will help you use the exciting features of your new TV.
- Instructions in this manual are based on using the remote control.
- Please read all safety and operating instructions in this manual carefully, and keep this manual for future reference.

The TV may drop or fall off which may cause an injury or damage.



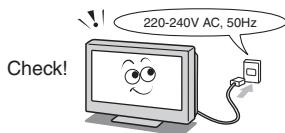
Important Safety Instructions

Be sure to observe the following instructions and precautions to ensure safe use of this TV.

Installation

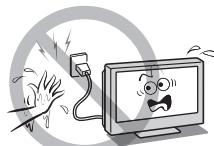
1) Always connect the power plug to an appropriate electrical outlet equipped with 220-240V, AC 50Hz.

Never use the TV outside the specified voltage range. It may cause a fire or an electric shock.



2) Never insert or remove the power plug with wet hands.

This may cause an electric shock.



3) Never place the TV in an unstabilized location such as on a shaky table, incline or location subject to vibration.

- Only use cabinets or stands recommended by the TV manufacturer.
- Only use furniture that can safely support the TV.
- Ensure that the TV is not hanging over the edge of the supporting furniture.
- Never place the TV on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the TV to a suitable support.

4) Never block or cover the slots and openings in the cabinet.

- Never place the TV so that it is facing upward or on its side.
- Never place the TV in a closet, bookcase or other similar area where the ventilation is poor.
- Never drape a newspaper, tablecloth or curtain on the TV.
- Never stand the TV on cloth or other material placed between the TV and supporting furniture.
- When installing the TV against a wall, always keep the TV at least 10 cm away from the wall.
- Never place the TV on a soft unstable surface, such as a carpet, or a cushion. The inside of this TV will overheat if the ventilation holes are covered, blocked or sealed, which may result in a fire.



5) Never place the TV near a heater or in direct sunlight.

The surface of the cabinet or power cord may melt and result in a fire or an electric shock.



6) Never place the TV in an area exposed to high humidity levels, such as in a bathroom or close to a humidifier.

This may cause a fire or an electric shock.



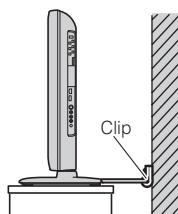
7) Never place the TV next to a stove where it will be exposed to oil, smoke, or steam, or in a location where there is a large quantity of dust.

This may cause a fire or an electric shock.

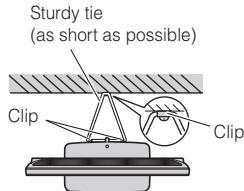


8) Install the TV in a horizontal, stable location. Connect between two clips on the back of the TV and a wall, pillar, etc., with a sturdy tie and clip of supplied accessories (☞ page 51).

- Use as short a tie as possible to ensure the TV is stable.
- If the TV is not installed securely, it may lean or fall over and cause an injury.
- To prevent injury, use the exclusive optional stand or wall-hanging bracket to install this TV on the floor or wall securely in accordance with a qualified technician.



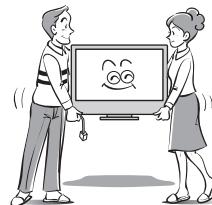
Side view



Top view

9) Precautions for moving the TV

- When moving the TV, be sure to remove the plug from the wall outlet and disconnect the aerial cable and audio/video cables, any steady ties. Fire or an electric shock may result if the power cord is damaged.
- When carrying the TV, at least two people are needed. Be sure to carry it upright.
- Never carry the TV with the screen facing up or down.



10) Precautions for installing on outdoor aerial

An outside aerial system should not be located in the vicinity of overhead power lines, or other electric light or power circuits.

If the aerial falls down or drops, it may cause injury or electric shock.



Use

- 1) Never place hot objects or open flame sources, such as lighted candles or nightlights, on or close to the TV.**
High temperatures can melt plastic and lead to fires.



- 2) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.**

When liquids are spilled or small items are dropped inside the TV, this may cause a fire or an electric shock.

If small objects drop inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician.



- 3) Never insert objects (metal or paper) or pour water inside the TV through ventilation holes and other openings.**

These items may cause a fire or an electric shock.

If these objects are inserted inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician. Be especially careful that children do not insert objects in the TV.



- 4) Never stand or climb on the TV.**

- Educate children about the dangers of climbing on furniture to reach the TV or its controls.

Be especially careful in households with children to prevent them through climbing on top of the TV.

It may move, fall over, break, become damaged or cause an injury.



- 5) When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the wall outlet for safety.**

- The TV is not completely disconnected from the power supply line, as minute current is consumed even when the \odot/I Power switch is turned off.
- The Mains plug or an appliance coupler is used as the disconnect device, therefore the disconnect device shall remain readily operable.



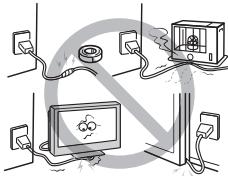
- 6) Never pull on the power cord when removing the plug from the wall outlet.**

Always hold the plug firmly when removing it. If the power cord is yanked, the cord may become damaged and a fire or an electric shock may occur.



7) Never cut, break, modify, twist, bunch up or bend the cord or apply excessive force or tension to it.

Never place heavy objects on the cord or allow it to overheat as this may cause damage, a fire or an electric shock. Contact a service technician if the power cord is damaged.



8) If there is thunder or lightning, never touch the aerial cable or other connected cables. You may suffer an electric shock.



Service

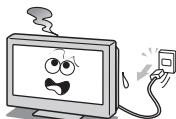
1) Never repair, modify or disassemble the TV by yourself.

It may cause a fire or an electric shock. Consult a service technician for inspection and repairs.



2) When a malfunction occurs, or if smoke or an unusual odor comes from the TV, turn off the TV and remove the power plug from the outlet immediately.

Make sure that the smoke or smell has stopped, then contact a service technician. If the TV is still used in this condition, it may cause a fire or an electric shock.



3) If the TV is dropped or the cabinet is broken, turn off the TV and remove the power plug from the outlet immediately.

If the TV is still power used in this condition, it may cause a fire or an electric shock. If the cabinet is broken, be careful when handling the TV to prevent an injury.

Contact a service technician for inspection and repair.



4) When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV.

Note:

The lamp unit contains a small amount of mercury. Disposal of mercury may be regulated due to environmental considerations.

Dispose of the used lamp unit by the approved method for your area. For disposal or recycling information, please contact your local authorities.



Cleaning

1) Remove the power plug before cleaning.

Never use solvents such as benzine or thinner to clean the TV.

- These solvents may distort the cabinet or damage its finish.
- If rubber or vinyl products remain in contact with the TV for a long time, a stain may result. If the cabinet becomes dirty, clean it with a soft, dry cloth.

When cleaning the surface of the LCD display, wipe the panel surface gently with a soft, dry cloth.



2) Periodically disconnect the power plug from the outlet and check it.

If dust has collected on the power plug connectors, clean off the dust with a dry cloth. This dust may cause a fire due to reduced insulation on the plug.



Important information

1) LCD screen

- If you have the LCD screen facing to the sun, the LCD screen will be damaged. Be aware of locating the TV close to a window or outdoors.
- Never press the LCD screen strongly or scratch it, and never put anything on it. These actions will damage the LCD screen.

2) Cabinet and LCD screen

Never spray volatile compounds such as insecticide on the cabinet and LCD screen. This may cause a discolouration or damage the cabinet and LCD screen.

3) Some pixels of the screen do not light up

The LCD display panel is manufactured using an extremely high level of precision technology; however, sometimes some pixels of the screen may be missing picture elements or have luminous spots. This is not a sign of malfunction.

4) Interference

The LCD display may cause interference in image, sound, etc. of other electronic equipment that receives electromagnetic waves (e.g. AM radios and video equipment).

5) Using in low temperature areas

If you use the TV in the room of 0°C or less, the picture brightness may vary until the LCD monitor warms up.

This is not a sign of malfunction.

6) Afterimages

If a still picture is displayed, an afterimage may remain on the screen; however, it will disappear. This is not a sign of malfunction.

Exemptions

- Toshiba is not liable for any damage caused by fires, natural disaster (such as thunder, earthquake, etc.), acts by third parties, accidents, owner's misuse, or uses in other improper conditions.
- Toshiba is not liable for incidental damages (such as profit loss or interruption in business, modification or erasure of record data, etc.) caused by use or inability to use product.
- Toshiba is not liable for any damage caused by neglect of the instructions described in the owner's manual.
- Toshiba is not liable for any damage caused by misuse or malfunction through simultaneous use of this product and the connected equipment.

Trademark Information

- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- Audyssey EQ is based on the award-winning Audyssey MultEQ technology. It is the first-ever room equalization solution that can achieve optimum sound for a large listening area and it is featured in many high end home theater products.
Audyssey EQ is used in the TV tuning process to calculate an equalization solution that corrects time and frequency response problems in TV systems. This results in clear, rich sound with more intelligible dialog.
- Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending. Audyssey EQ is a registered trademark of Audyssey Laboratories.
- HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks of HDMI Licensing LLC.
- DVB is a registered trademark of Digital Video Broadcasting Project.
- DivX® is a registered trademark of DivX, Inc., and it is used under license.
- SDHC logos express the High Capacity SD Memory Card more than 2GB and the logos include the SDHC, miniSDHC, microSDHC and smartSDHC Logos. These logos are licensed by SD-3C, LLC.
- INSTAPORT™ and INSTAPORT logo are trademarks of Silicon Image, Inc. in the United States and other countries.

Getting started

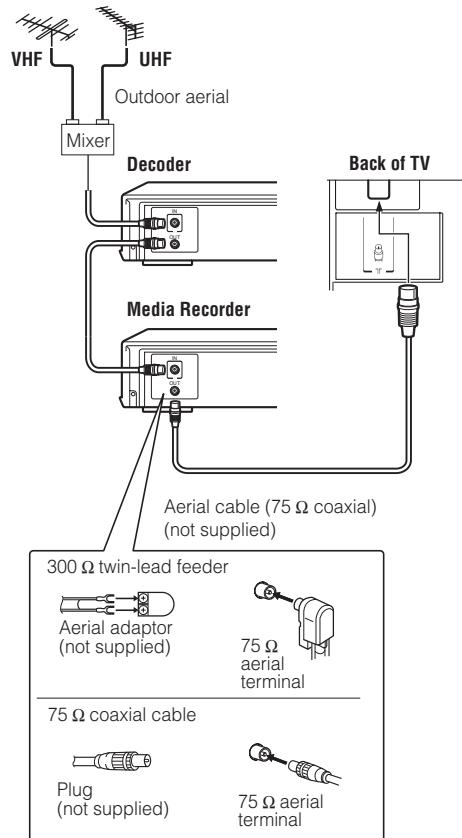
Connecting an aerial

Optimum reception of colour requires a good signal and will generally mean that an outdoor aerial must be used.

The exact type and positioning of the aerial will depend upon your particular area.

Your Toshiba dealer or service personnel can best advise you on which aerial to use in your area.

Before connecting the aerial cable, turn off all main power switches.

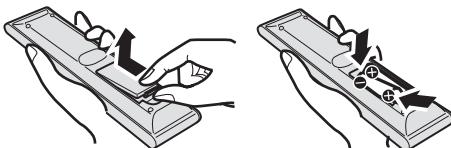


Exploring your new TV

Installing the remote control batteries

Remove the battery cover.

Insert two R03 (AAA) batteries matching the $-/+$ polarities of the battery to the $-/+$ marks inside the battery compartment.



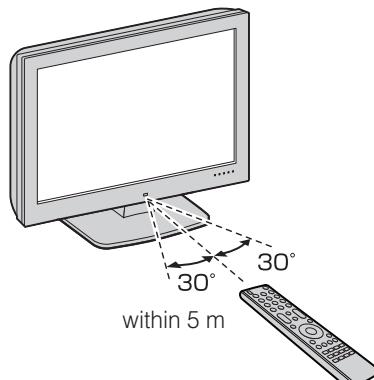
Cautions:

- Dispose of batteries in a designated disposal area. Batteries must not be exposed to excessive heat such as sunshine, fire or the like.
- Attention should be drawn to the environmental aspects of battery disposal.
- Never mix battery types or combine used batteries with new ones.

Notes:

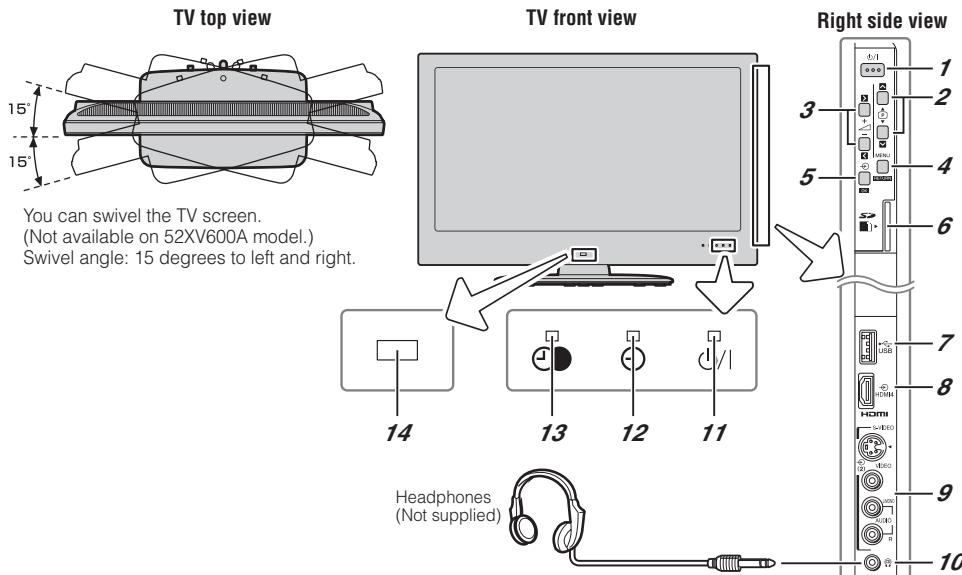
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace both batteries with new ones.
- If the batteries are dead or if you will not use the remote control for a long time, remove the batteries to prevent battery acid from leaking into the battery compartment.

Effective range



TV top, front and side panel controls

- You can operate your TV using the buttons on the side panel or the remote control. The back and side of the panel provide the terminal connections to connect other equipment to your TV (☞ "Connecting your TV" pages 35 – 47).
- For the use of each control, see the pages in brackets.

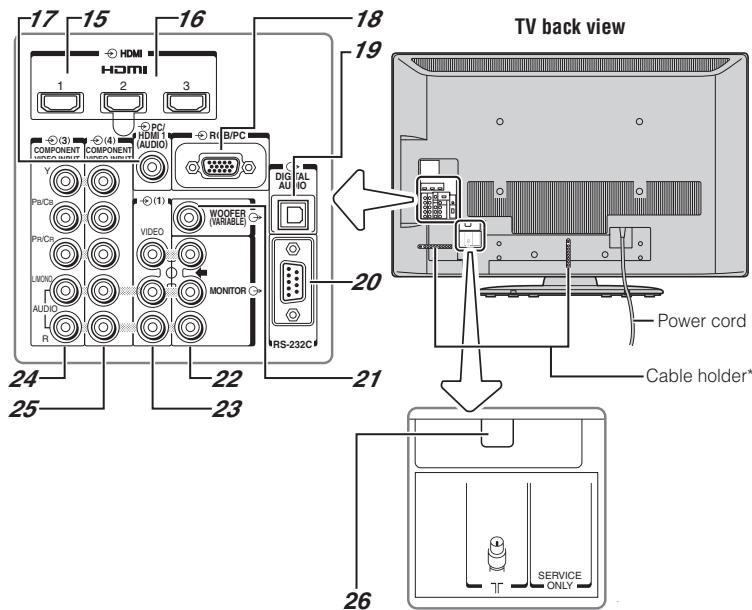


- 1** **(Power on/Standby)** — Press to turn the TV on/standby (☞ page 13).
- 2** **(Programme position)** — When no menu is on-screen, these buttons select the programme position. (☞ pages 16, 17).
 ^ v (MENU up/down) — When a TV menu is on-screen, these buttons function as up/down menu navigation buttons (☞ page 14).
- 3** **(Volume)** — When no menu is on-screen, these buttons adjust the volume level (☞ page 11).
 < > (MENU left/right) — When a TV menu is on-screen, these buttons are used for left/right menu navigation and to adjust settings (☞ page 14).
- 4** **MENU** — Press to access the TV SETUP menu (☞ page 14).
RETURN — When a TV menu is on-screen, this button will take you back to the previous menu (☞ page 15).
- 5** **(Input source selection)** — When no menu is on-screen, this button selects the input source (☞ page 27).
OK — When a TV menu is on-screen, this button will make a selection or take you to the next available menu layer (☞ page 14).
- 6** **SD memory card (input terminal)** — Insert your SD memory card here to view photos (JPEG). (☞ page 42).
- 7** **USB (input terminal)** — Insert your USB storage device here to enjoy movies (DivX®), photos (JPEG), and music (MP3) (☞ page 42).
- 8** **HDMI 4 (input terminal)** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device (☞ page 37).
- 9** **(2) (Video 2 input terminals)** — Optional S-video or standard video and standard audio inputs (☞ page 36).
- 10** **(Headphone jack)** — For use with headphones.
- 11** **(Power LED)** — Power indicator (☞ page 13).
- 12** **(On Timer LED)** — On Timer Indicator (☞ page 26).
- 13** **(Programme Timer LED)** — Programme Timer Indicator (☞ page 26).
- 14** **(Remote sensor)** — Point the remote control toward this remote sensor (☞ page 8).

Note:

When the Headphone jack is being used, the sound from all speakers will be muted.

TV back panel connections



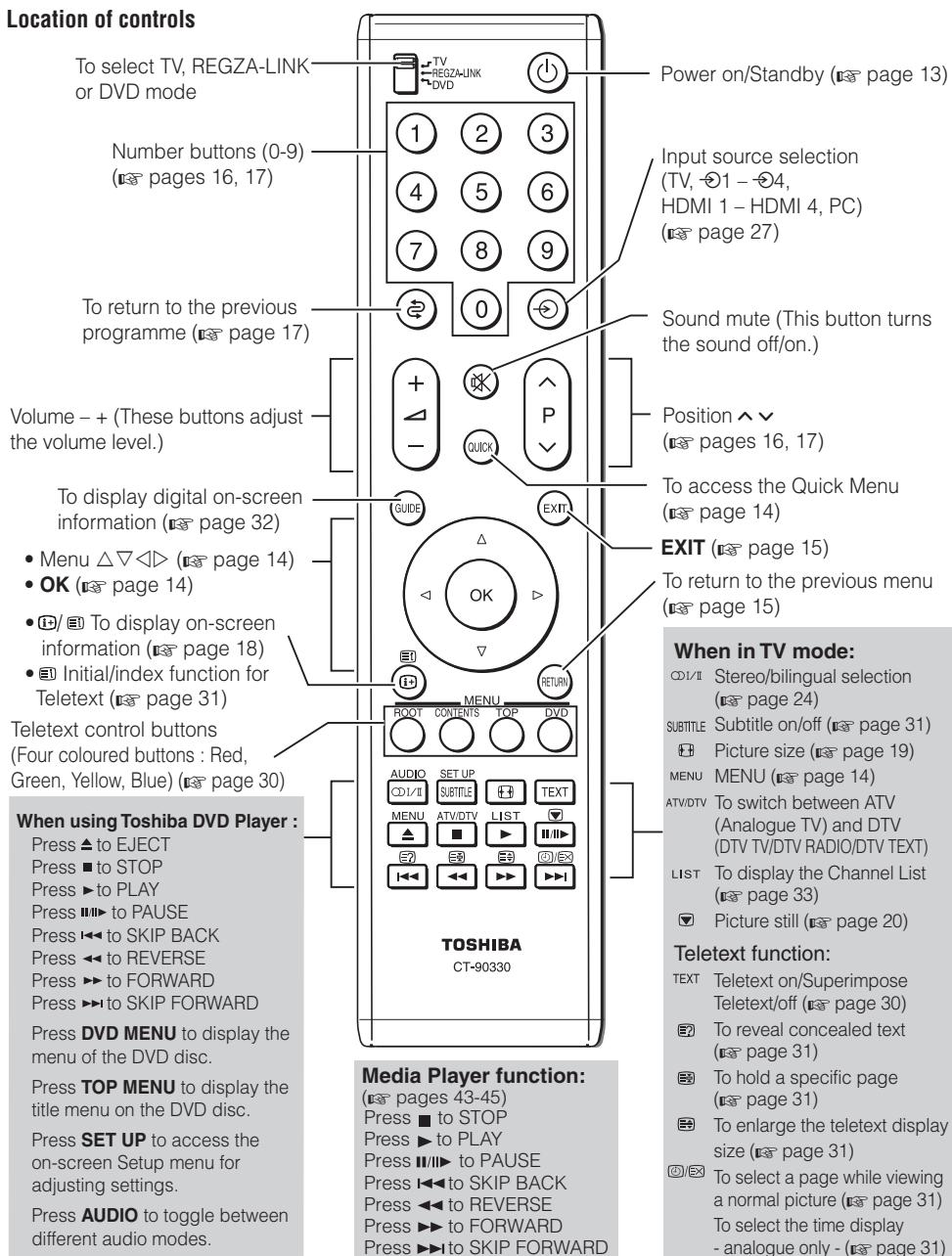
* You can use the cable holder to hold the aerial cable, video and audio cables etc.
Never grasp the holder when moving the TV.

- 15 \odot HDMI 1 (input terminal) — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device (☞ page 37).
- 16 \odot HDMI 2 and \odot HDMI 3 (input terminals) — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device (☞ page 37).
- 17 \odot PC/HDMI 1 (AUDIO) (input terminal) — PC audio input terminal is shared with the HDMI 1 analogue audio input terminal, and their use can be configured in the **SETUP** menu (☞ pages 37, 39).
- 18 \odot RGB/PC (input terminal) — For use when connecting a personal computer (PC) (☞ page 39).
- 19 \odot DIGITAL AUDIO (OPTICAL) (output terminal) — For use when connecting an amplifier with optical type digital audio input (☞ pages 35, 36).

- 20 RS-232C terminal — This terminal is for service use only.
- 21 \odot WOOFER (output terminal) — For use when connecting a woofer system (variable) (☞ page 35).
- 22 \odot MONITOR (output terminals) — Standard video and standard audio outputs (☞ page 35). No On-Screen-Display will output from these terminals.
- 23 \odot (1) (Video 1 input terminals) — Standard (composite) video and standard (analogue) stereo audio inputs (☞ page 35).
- 24 \odot (3) (Video 3 input terminals) — High-definition component video and standard (analogue) stereo audio inputs (☞ page 35).
- 25 \odot (4) (Video 4 input terminals) — High-definition component video and standard (analogue) stereo audio inputs (☞ page 35).
- 26 ∇ (Aerial input terminal) — Aerial signal input (☞ page 8).

Learning about the remote control

Location of controls



When in TV mode:

□/■ Stereo/bilingual selection (page 24)
 SUBTITLE Subtitle on/off (page 31)

□ Picture size (page 19)
 MENU MENU (page 14)
 ATV/DTV To switch between ATV (Analogue TV) and DTV (DTV TV/DTV RADIO/DTV TEXT)

LIST To display the Channel List (page 33)

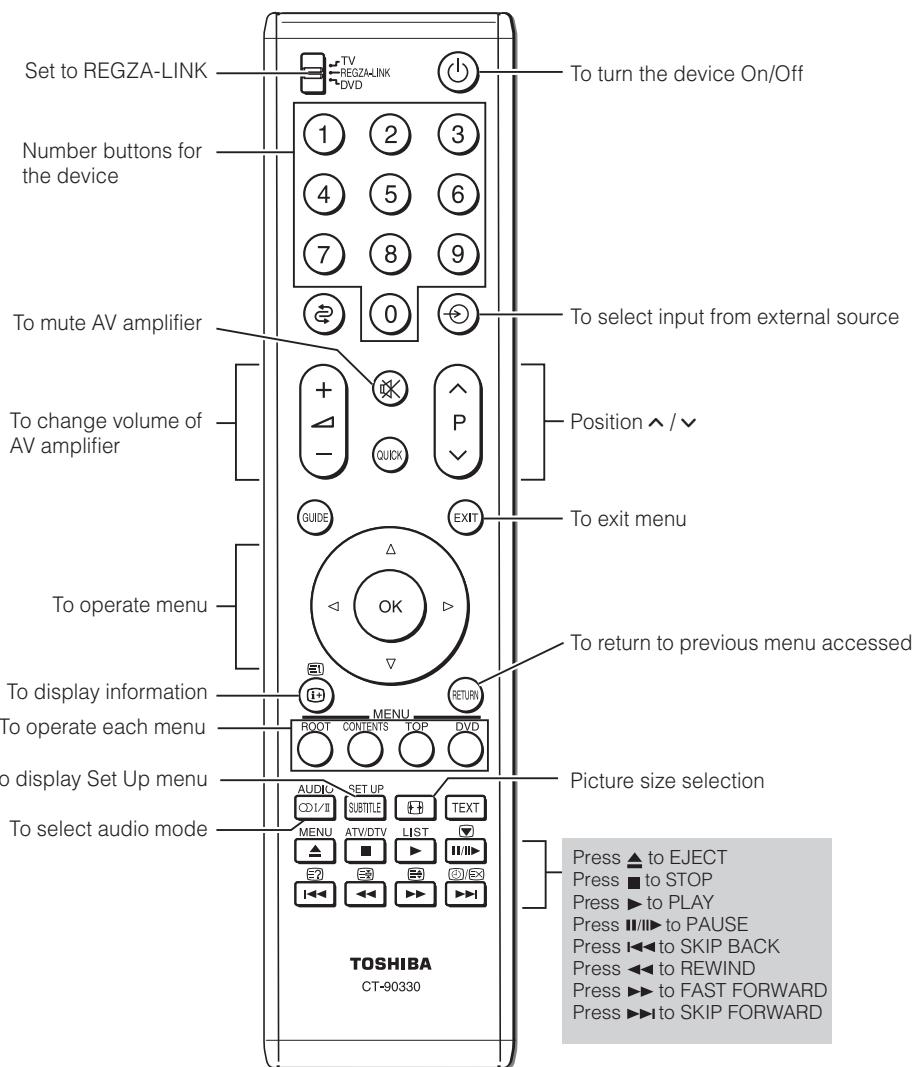
□ Picture still (page 20)

Teletext function:

TEXT Teletext on/Superimpose Teletext/off (page 30)
 □ To reveal concealed text (page 31)
 □ To hold a specific page (page 31)
 □ To enlarge the teletext display size (page 31)
 □/□ To select a page while viewing a normal picture (page 31)
 To select the time display - analogue only - (page 31)

* For REGZA-LINK remote control functions, please refer to "Location of controls for REGZA-LINK mode" (page 12).

Location of controls for REGZA-LINK mode



The REGZA-LINK mode switch on the TV remote control allows control of the connected REGZA-LINK device being watched. (☞ page 29)

Note:

These functions are dependent on the connected device. Not all of the remote control buttons may be available. Please refer to the owner's manuals of the connected devices.

Turning the TV on

Switching on the TV

Connect the power cord to a wall outlet. The \odot/I power indicator light should be red (standby mode).

- Press \odot on the remote control or \odot/I on the TV right side panel. The \odot/I power indicator lights in green.

Note:

If you watch black and white programmes when the **Colour System** mode is set to **Auto**, colour noise may appear on the screen. In this case select the appropriate **Colour System** (For the system of each country or region, refer to page 15).

Switching off the TV

- Press \odot on the remote control or \odot/I on the TV right side panel to switch to the standby mode.

Notes:

- The TV is not fully disconnected from the main supply, as minute current is consumed even when \odot/I is turned off. When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the wall outlet.
- The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day. This function does not work for external inputs or if Blue Screen mode is set to 'Off'.
- If power is cut off while you are viewing the TV, the Last Mode Memory function turns on the TV automatically when power is applied again. If power is going to be off for a long time and you are going to be away from your TV, unplug the power cord to prevent the TV from turning on in your absence.

Tuning the TV for the first time

Before switching on the TV, put your decoder and media recorder to **Standby**, if they are connected, and ensure that the aerial is connected. To setup the TV, use the buttons on the remote control as detailed on page 11.

- Press the \odot button. The **Quick Setup** screen will appear. This screen will appear the first time that the TV is switched on and each time "Reset TV" (page 27) is executed.



- Press \triangleleft or \triangleright to select the menu language **English** or **Français**.

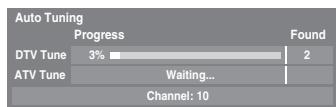
- Press ∇ to select **Time Zone**, and then press \triangleleft or \triangleright to select the item you want to set. (New South Wales, Northern Territory, Queensland, South Australia, Tasmania, Victoria, Western Australia or Australian Capital Territory)

- Press OK , to display the **Location** menu (page 17).



- Press \triangleleft or \triangleright to select **Home** or **Store**. For normal home use, select **Home**.

- Press OK to display the **Auto Tuning** startup screen. Use \triangleleft or \triangleright to select **DTV** and **ATV**, **DTV** or **ATV**. Then, press ∇ to select **Start Scan**, and then press OK . You must allow the TV to complete the search.



When the search is complete, the TV will automatically select position one.

The **Auto Tuning** results screen will display the services that are found.

Auto Tuning			
DTV Services Found :77		ATV Services Found :12	
Pos.	Name	Type	Ch.
1	□□□	■	35
6	□□	■	24
9	□□□	■	24
10	□□□□	■	35
11	□□□	■	24
12	□□□□□	■	35
21	□□□□	■	32

- Press \triangleleft or \triangleright to view the **DTV** (digital channel) or **ATV** (analogue channel) lists.

Auto Tuning			
DTV Services Found :77		ATV Services Found :12	
Pos.	Name	Ch.	
0	□□□	31	
1	□□	2	
2	□□□	4	
3	□□□□	6	
4	□□□	8	
5	□□□□□	9	
6	□□□□	10	

- Use ∇ or Δ to move through the list to select a channel, and then press OK to view.

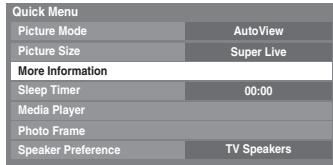
Notes:

The **Quick Setup** menu can also be displayed at any time from the **SETUP** menu.

Using the Quick Menu

Quick Menu helps you access some options quickly, such as **Picture Mode**, **Picture Size**, **More Information**, **Sleep Timer** etc.

Press **QUICK** to display the **Quick Menu**, and then use **▽** or **△** to select the option.



Note:

Quick Menu items are different depending on the current mode.

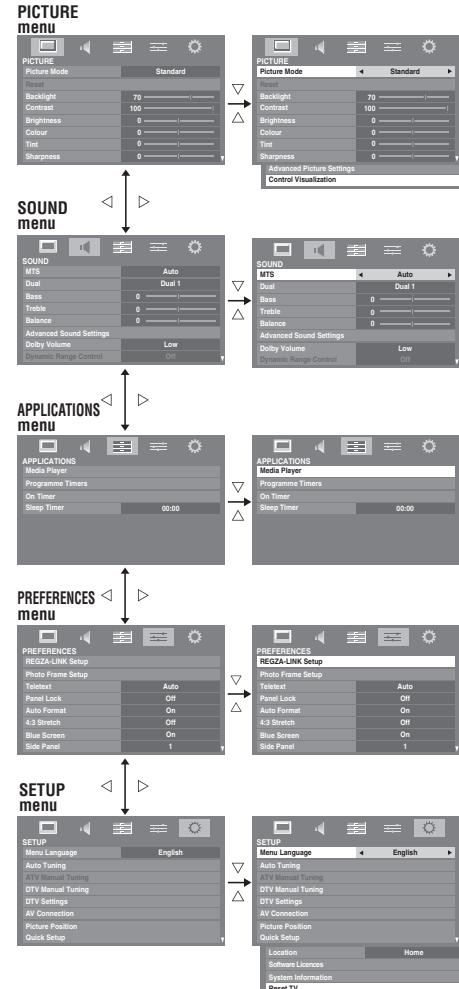
Mode	Quick menu item	Description
When viewing a TV programme or pictures from the external input	Picture Mode	page 21.
	Picture Size	page 19.
	More Information	page 18.
	Sleep Timer	page 27.
	Media Player	page 42.
	Speaker Preference	page 29.
When using EPG	Genre Colour	page 32.
	EPG Update/Cancel	page 32.
	EPG Update	
When using Media Player (Photo View)	Interval Time	page 45.
	Repeat	page 45.
	Photo Frame	page 46.
When using Media Player (Movie Play)	Picture Size	page 19.
	Repeat	page 43.
When using Media Player (Movie List)	Repeat	page 43.
When using Media Player (Music List)	Repeat	page 45.

Learning about the menu system

We suggest you familiarize yourself with the display charts before using the menu system:

- Press **MENU** to display menu, and then press **◀** or **▶** to select main menu headings.
- Press **▽** or **△** to select an item.
- Press **◀** or **▶** to select or adjust a setting.
- Press **OK** to display the next menu.

Displaying the menu chart



Notes :

- The same menu is displayed in DTV (Digital TV) and ATV (Analogue TV) modes; however, some items are greyed out in each case.
- In video input mode (① - ④), **Auto Tuning**, **ATV Manual Tuning**, **DTV Manual Tuning** and **DTV Settings** are not available. Instead, **Manual Settings** appears in the **SETUP** menu (page 28).
- If you connect external equipment via component video source, **Colour System** selection in the **Manual Settings** menu is not available.
- If you do not make a selection for a while, the menu display disappears automatically.
- If you want to close the menu display instantly, press **EXIT** or **MENU**.
- To return to the previous menu, press **RETURN**.
- In PC input mode, **PC Settings** appears in the **SETUP** menu (page 40).
- When the **3D Colour Management** function is set to on (page 22), you can select **Base Colour Adjustment** in the **PICTURE** menu.

Programming channels into the TV's channel memory

Auto Tuning

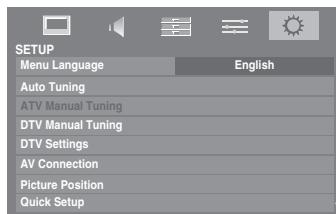
Auto Tuning will completely re-tune the TV and can be used to up-date the channel list.

It is recommended that **Auto Tuning** is run periodically to ensure that all new services are added. All current channels and settings, e.g. locked channels, will be lost.

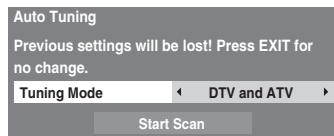
Note:

As new services are broadcast, it will be necessary to re-tune the TV in order to view them.

- Press **MENU**, and then press **<** or **>** to select the **SETUP** menu.



- Press **▽** to select **Auto Tuning**, and then press **OK**. A screen will appear warning that previous settings will be deleted.



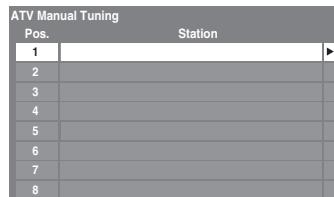
- Use **<** or **>** to select **DTV and ATV**, **DTV** or **ATV**. Then, press **▽** to select **Start Scan**, and then press **OK** to continue with the **Auto Tuning**. The TV will start to search for all available DTV and/or ATV services. You must allow the TV to complete the search. When the search is complete, the **Auto Tuning** screen will display the services found.

- Use **▽** or **△** to move through the list to select a channel, and then press **OK** to view.

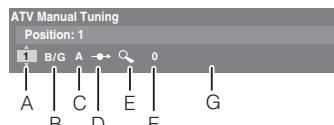
ATV Manual Tuning - analogue only

Use the Manual Tuning operation if desired channels cannot be preset by Auto Tuning or if you would like to preset channels to specific position numbers one by one.

- From the **SETUP** menu, press **▽** or **△** to select **ATV Manual Tuning**.
- Press **OK** to display the **ATV Manual Tuning** menu. Press **△** or **▽** to select the position you want to set.



- Press **OK** to display the settings menu. Press **<** or **>** to select an item, and then press **△** or **▽** to set the item as shown below.



- Position selection
- System (Sound)
B/G, D/K, I

C. Colour System

A : Automatic, **P** : PAL , **S** : SECAM,
N4 : NTSC 4.43 (MHz), **N3** : NTSC 3.58 (MHz)
 If the colour of a certain channel is abnormal, the automatic colour system selection (A) may have malfunctioned or the sound system selection is wrong. In this case, select another colour and/or sound system.

D. Position skip selection

Press ∇ or Δ to turn the position skip option on “ $\curvearrowleft\curvearrowright$ ” or off “ \leftrightarrow ”. The position will then be skipped when you select channels with **P** \wedge or **P** \vee . The “ $\curvearrowleft\curvearrowright$ ” mark will appear beside the position number in the banner when you use the **Number** buttons on the remote control to tune directly.

E. Channel search operation

Press Δ to search up the band or ∇ to search down the band.

Press ∇ or Δ repeatedly until your desired channel is displayed.

When a station/satellite is found, it will be displayed.
 NEVER PRESS ANY OTHER BUTTONS
 WHILE THE SET IS TUNING.

F. Manual Fine Tuning

Press ∇ or Δ until better picture and sound are obtained.

G. Label

Station labels appear beside the position display each time you turn on the TV, select a channel, or press **[E1]**.

To change or create station labels:

1) Press ∇ or Δ repeatedly to select a character for the first space, then press \triangleright .

→A←Z↔(↔)↔*↔+↔,↔-↔.↔/↔0↔9↔U↔
 *(blank space)

2) Repeat step 1) to enter the rest of the characters.

If you would like a blank space in the label name, you must choose a blank space from the list of characters.

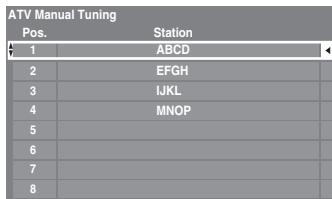
Press **OK** to store your settings.

Sorting positions - analogue only -

ATV channels may be moved and stored to the position of your choice.

1 From the **SETUP** menu, press ∇ or Δ to select **ATV Manual Tuning**.

2 With the list of channels now showing, press ∇ or Δ to select the channel you want to move and press \triangleright .



3 Use ∇ or Δ to move through the list to your preferred position. As you do so, the other channels will move to make room.

4 Press \triangleleft to store your move.

Repeat as necessary, and then press **EXIT**.

DTV Manual Tuning - digital only -

This feature is available for service engineers or can be used for direct channel entry if the multiplex channel is known.

1 From the **SETUP** menu, press ∇ or Δ to select **DTV Manual Tuning**, and then press **OK**.



2 Enter the multiplex number using the number buttons or use \triangleleft or \triangleright to adjust the number up or down. Then press ∇ to select **Start Scan**, and press **OK**. The TV will start to search for that multiplex.



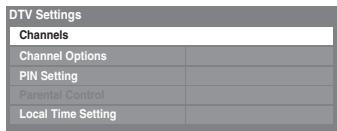
When the multiplex is found, any channels that are not currently in the channel list will be added and the channel information will be updated.

3 Repeat as necessary. Press **EXIT** to finish.

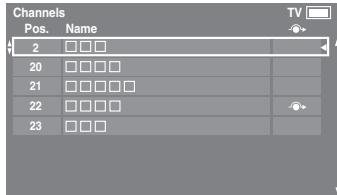
Channels

The DTV channel order may be changed to suit your personal preference.

- 1 From the **SETUP** menu, press ∇ or Δ to select **DTV Settings** and press **OK**.
- 2 Press ∇ or Δ to select **Channels**, and then press **OK**.



- 3 With the list of channels showing, press ∇ or Δ to select the channel you want to move, and then press \triangleright .



- 4 Use ∇ or Δ to move through the list to your preferred position. As you do so, the other channels will move to make room.
- 5 Press \triangleleft to store your move. Repeat as necessary, and then press **EXIT**.

Setting the Location

You can select either **Home** or **Store** mode. **Home** is recommended for normal home use. Select **Store** when using a TV for displaying in a shop, etc.

- 1 From the **SETUP** menu, press ∇ or Δ until **Location** is selected.
- 2 Press \triangleleft or \triangleright to select **Home** or **Store**.

Watching TV programmes

Programme Selection

Digital programmes

After you have tuned the TV, you have several ways to navigate through all programmes:

- Press the **Number** buttons. You may omit the leading zeroes, which will be appended automatically.
- Press **P \wedge** / **P \vee** to view the previous or next position. The channels are arranged in ascending order according to the channel number.
- Press **LIST** to display the **Channel List**, and then press ∇ or Δ to select a channel, and then press **OK** to view the channel (☞ page 27).

Analogue programmes

- 1 Enter the desired position number using the **Number** buttons on the remote control.
For positions below 10, use 0 and the required number e.g., for position 1.

- 2 You can also change the position by using **P \wedge** or **P \vee** .

Note:

Changing positions between different format channels takes several seconds.

Switching between positions

You can switch positions without entering an actual position number each time.

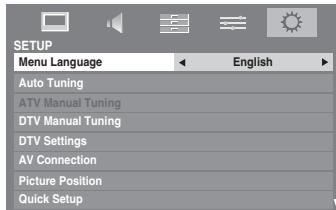
- 1 Select the first position you want to view.
- 2 Select the second position with the **Number** buttons (0-9).
- 3 Press **②**. The previous position will be displayed.

Each time you press **②**, the TV will switch back and forth between the two positions.

Selecting the menu language

Choose from 2 different languages (English or Français) for the On-Screen-Display.

- 1 Press **MENU**, and then press **<** or **>** to display the **SETUP** menu.
- 2 Press **△** or **▽** to select **Menu Language**.
- 3 Press **>** or **<** to select the desired language.



Displaying the on-screen information

- analogue only -

- 1 Press **(i)** to display the following on-screen information.



The information will disappear in 6 seconds.

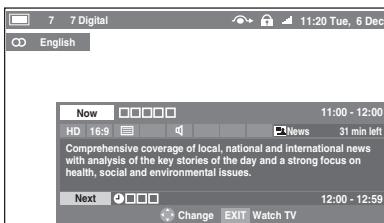
- Position or external input mode selected
- Label (if set)
- Mono/Stereo/Dual audio status
- Position skip on/off information

- 2 To close the display instantly, press **(i)** again.

On-screen information - digital only -

When viewing in Digital TV mode, the on-screen information will give the details of the programme currently being viewed.

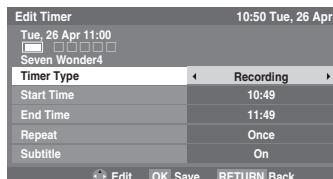
- 1 Press **(i)** to display the on-screen information.



The information will disappear in 60 seconds. On-screen information contains the following information:

- Current Channel Number
- Channel Name
- Skip (if set) (→)
- Lock (if set) (🔒)
- Now and Next Programme Names
- Current date and time
- Video format of the current programme (SD/HD)
- Teletext availability (☒)
- Subtitle availability (☒)
- Parental rating (PG, MA, G, R, etc.)
- Dolby® Digital audio track availability (indicated by **Dolby D**)
- Genre (☒)
- Programme Timer (if set) (⌚)
- Reminder Timer (if set) (✓)

- 2 Press **▽** or **△** to select the “Now” or “Next” information guide.
- 3 To record or set a reminder for the Next programme, select “Next” and press **OK**. The **Edit Timer** screen will appear.



- 4 The details of the programme will have been added to the timer. Press **OK** to save. To indicate that a timer has been set, a clock icon will be displayed in the **Next** field of the information screen (⌚).
- A check mark will appear if the timer is a Reminder Timer (✓).

Note:

The Programme Timer LED indicator (page 9) will appear orange when a timer is set.

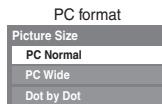
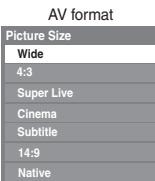
Using the TV's features (General)

Picture adjustment

Most of the picture controls and functions are available in both digital and analogue modes. However features not available will be greyed out.

Selecting the picture size

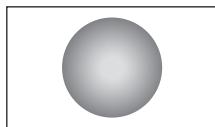
- 1 Press to display the picture size list, and then press or to select the appropriate picture size (or press repeatedly to select the desired picture size directly).



- 2 Press .

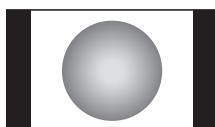
Wide

Use this setting when watching a wide-screen DVD, wide-screen video tape or a 16:9 broadcast (when available). Due to the range of wide-screen formats (16:9, 14:9, 20:9 etc.), you may see bars on the top and bottom of the screen.



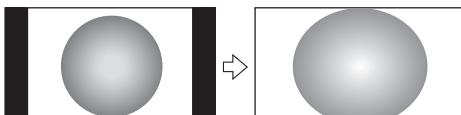
4:3

Use this setting to view a true 4:3 broadcast.



Super Live

This setting will enlarge a 4:3 image to fit the screen by stretching the image horizontally and vertically, holding better proportions at the centre of the image. Some distortion may occur.



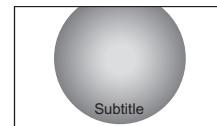
Cinema

When watching "all sides panel format" films/video tapes, this setting will eliminate or reduce the black bars on all sides of the screen by zooming in and selecting the image without distortion.



Subtitle

When subtitles are included on a letterbox format broadcast, this setting will raise the picture so that most of the text is displayed.



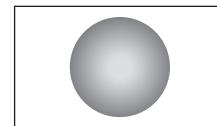
14:9

Use this setting when watching a 14:9 broadcast.



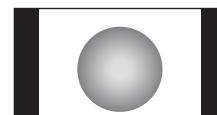
Native

This setting will display the image correctly without distortion or picture clipping.



PC Normal

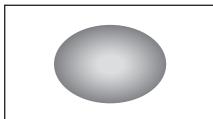
Use this setting for a PC connected via HDMI or RGB/PC terminal when receiving PC signal format. This setting will display the image correctly without distortion or picture clipping.



Using the TV's features (General)

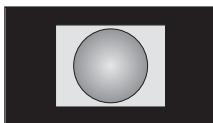
PC Wide

Use this setting for a PC connected via HDMI or RGB/PC terminal when receiving PC signal format. This setting will display the image without picture clipping.



Dot by Dot

"Dot by Dot" is a non-scaling display. Depending on the input signal format, the picture is displayed with side panels and/or bars at the top and bottom (i.e. VGA input source).



Notes:

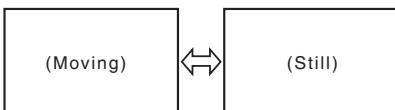
- Using the special functions to change the size of the displayed image (e.g. changing the height/width ratio) for the purpose of public display or commercial gain may infringe on copyright laws.
- If the aspect ratio of the selected format is different from the one of the TV transmission or video programme, it can cause a difference in display. Change to the correct aspect ratio picture size to fix this.
- When using a PC connected via HDMI or RGB/PC terminal, moving image quality may deteriorate.

Using the picture still feature

- Press  to freeze the picture.

Even if an image is frozen on the TV screen, the pictures are still running on the input source. Audio continues to be output as well.

To return to a moving picture, press  again.



Note:

If you use this function except for the purpose of your private viewing and listening, it may infringe upon copyrights protected by copyright laws.

Adjusting the Picture Position - analogue only

Adjustment to the position of the picture may be made to suit your viewing preferences.

- 1 From the **SETUP** menu, press  or  to select **Picture Position**.



- 2 Press , and then press  or  to select the item you want to adjust.



- 3 Press  or  to adjust the settings as desired.



Notes:

- When the picture size is in **Wide** or **4:3** mode, only the Horizontal Position can be adjusted.
- When the picture size is in **Native**, **PC Wide**, **PC Normal** and **Dot by Dot** mode, this function will not be available.

Resetting the Picture Position

This function resets your picture position settings to the factory settings.

- 1 From the **Picture Position** menu, press  or  to select **Reset**.

- 2 Press .

Activating the Picture Mode

This TV offers the choice of personalising the picture style.

AutoView, **Dynamic**, **Standard**, **Movie**, **Store**, **Game** and **PC** are preset options and affect many features/settings within the TV.

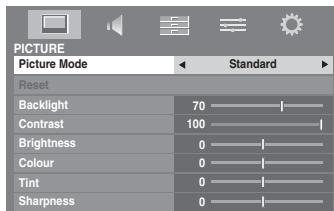
Notes:

- Because the **AutoView** mode automatically adjusts picture settings based on ambient light conditions and input signal content, the **Auto Brightness Sensor** and **Expert Mode** menus are greyed out when it is selected.

Using the TV's features (General)

- **Store** mode is only available when **Location** is set to **Store**.
- **Game** mode is available in external input mode (other than aerial input). When you select **Game** mode, suitable widescreen formats will be selected.
- **PC** mode is available in RGB/PC input mode or HDMI input mode.
- The picture mode you select affects the current input only. You can select a different picture mode for each input.

1 From the **PICTURE** menu, press ∇ or Δ to select **Picture Mode**.



2 Press \triangleleft or \triangleright to select the picture mode you prefer and press **OK**.

Activating the picture preferences

You can customise current picture mode settings as desired. For example, while selecting "**Dynamic**," if you change the following items, such as **Backlight**, **Contrast**, **Brightness**, **Colour**, **Tint**, **Sharpness** and the **Advanced Picture Settings** items, your new setting is saved under the same name "**Dynamic**."

1 From the **PICTURE** menu, press ∇ or Δ to select either **Backlight**, **Contrast**, **Brightness**, **Colour**, **Tint** or **Sharpness**.

2 Press \triangleleft or \triangleright to adjust the settings.

Note:

Backlight and **Contrast** are not available when **Picture Mode** is set to **AutoView**.

Resetting the Picture Mode

This feature resets **Picture Mode** to the factory settings.

Note:

If no picture settings have been changed, **Reset** is not available.

- 1 From the **PICTURE** menu, press ∇ or Δ to select **Reset**, and then press **OK**.
- 2 A confirmation message will appear. Press \triangleleft or \triangleright to select **Yes**, and then press **OK**.

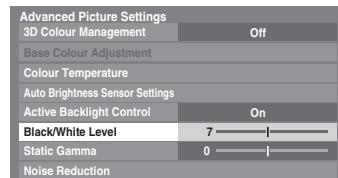
Adjusting Black/White Level

Black/White Level improves the definition of dark areas of the picture.

1 From the **PICTURE** menu, press ∇ or Δ until **Advanced Picture Settings** is selected.



2 Press **OK**, and then press ∇ or Δ to select **Black/White Level**.



3 Press \triangleleft or \triangleright to adjust the settings as required.

Using ClearFrame

This function eliminates motion blur without adding flicker or reducing image brightness and improves the viewing quality of a motion picture.

1 From the **Advanced Picture Settings** menu, press ∇ or Δ until **ClearFrame** is selected.

2 Press \triangleleft or \triangleright to select **On** or **Off**.

Adjusting Film Stabilization

The **Film Stabilization** function improves motion smoothness.

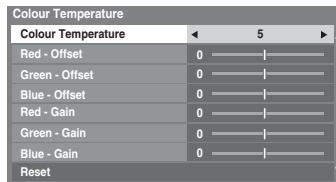
1 From the **Advanced Picture Settings** menu, press ∇ or Δ until **Film Stabilization** is selected.

2 Press \triangleleft or \triangleright to select **Off**, **Smooth** or **Standard**.

Adjusting the Colour Temperature

Colour Temperature increases the 'warmth' or 'coolness' of the picture by increasing the red or blue tint.

- 1 From the **Advanced Picture Settings** menu, press ∇ or Δ to select **Colour Temperature**, and then press **OK**.
- 2 Press \triangleleft or \triangleright to select the **Colour Temperature** setting (0 (warm) - 10 (cool)).



- 3 Press ∇ or Δ to select the option you want to adjust, then press \triangleleft or \triangleright to adjust the setting.
- 4 Press **OK** to return to the previous menu.

To return the colour temperature settings to the factory defaults, select **Reset** and press **OK**.

Note:

If **Picture Mode** is set to **AutoView**, you can only adjust **Colour Temperature**.

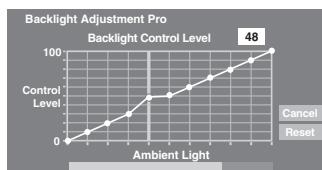
Adjusting the Auto Brightness Sensor

When the **Auto Brightness Sensor** is activated, it will automatically optimise the backlighting levels to suit ambient light conditions.

- 1 From the **Advanced Picture Settings** menu, press ∇ to select **Auto Brightness Sensor Settings**, and then press **OK**.
- 2 Press \triangleleft or \triangleright to select **On** and press **OK**.



- 3 Press ∇ to select **Backlight Adjustment Pro**, and then press **OK**.
- 4 The **Backlight Adjustment Pro** window will appear. Press **OK** again to display the adjustment window.
- 5 Press \triangleleft or \triangleright to select a point and press ∇ or Δ to adjust the level.



- 6 Press **OK** to confirm the adjustment.
- To cancel the adjustment when selecting a point, select **Cancel** and press **OK**.
- To return the settings of all points to the factory defaults, select **Reset**, and then press **OK**.

Using the Active Backlight Control

In order to improve screen visibility, the active backlight control sets the screen brightness automatically during dark scenes.

- 1 From the **Advanced Picture Settings** menu, press ∇ or Δ to select **Active Backlight Control**.
- 2 Press \triangleleft or \triangleright to select **On** or **Off**.

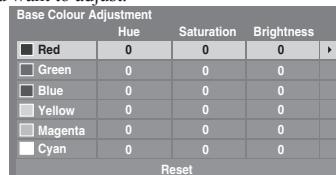
Adjusting 3D Colour Management

You can adjust picture colour quality by selecting from 6 base colour adjustments : **Red**, **Green**, **Blue**, **Yellow**, **Magenta** and **Cyan**.

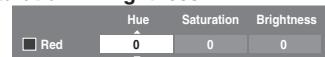
- 1 From the **Advanced Picture Settings** menu, press ∇ or Δ to select **3D Colour Management**, and then press \triangleleft or \triangleright to select **On**.



- 2 Press ∇ or Δ to select **Base Colour Adjustment**.
- 3 Press **OK**, and then press ∇ or Δ to select the item you want to adjust.



- 4 Press \triangleright , and then press ∇ or Δ to select **Hue**, **Saturation** or **Brightness**.



- 5 Press ∇ or Δ to adjust the settings as required.

Note:

If you set **3D Colour Management** to **Off**, **Base Colour Adjustment** will not be available.

Resetting Base Colour Adjustment

The reset function returns base colour adjustment to the factory settings.

- 1 From the **Base Colour Adjustment** menu, press ∇ or Δ to select **Reset**.
- 2 Press **OK**.

Activating MPEG NR (Noise Reduction)

If the incoming MPEG signal exhibits noise (is grainy), depending on the compression and conversion, the noise may be reduced when using this function.

- From the **Advanced Picture Settings** menu, press ∇ or Δ to select **Noise Reduction**, and then press **OK**.



- Press \triangleleft or \triangleright to select **Off**, **Low**, **Middle** or **High**.

Activating DNR (Digital Noise Reduction)

If the incoming signal is weak and the picture is blurry, the picture may be improved when using this function.

- From the **Noise Reduction** menu, press ∇ or Δ to select **DNR**.
- Press \triangleleft or \triangleright to select **Auto**, **Off**, **Low**, **Middle** or **High**.

Adjusting the Static Gamma

The static gamma feature allows you to adjust the levels of black in the picture.

- From the **Advanced Picture Settings** menu, press ∇ or Δ to select **Static Gamma**.
- Press \triangleleft or \triangleright adjust the level.

Adjusting Resolution+

The **Resolution+** feature allows you to adjust the clarity levels for your desired picture settings.

- From the **Advanced Picture Settings** menu, press ∇ or Δ until **Resolution+** is selected, and then press **OK**.
- In the **Resolution+** field, select **On**.



- Press ∇ to select **Level**, and then press \triangleleft or \triangleright to adjust the level.

Notes:

- This feature may not work properly depending on the content.*
- Adjustable range varies according to the Picture Mode you set.*
- Noise may appear on the image depending on the device connected to the TV (e.g. a device with a specific enhancer function).*

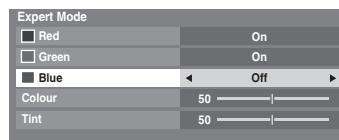
Using Expert Mode

This feature allows you to turn the colours red, green and blue on/off individually in order to adjust each colour more accurately.

Note:

This feature is not available when Picture Mode is set to AutoView.

- From the **Advanced Picture Settings** menu, press ∇ or Δ until **Expert Mode** is selected, and then press **OK**.
- Press ∇ or Δ to select either **Red**, **Green** or **Blue**, and then press \triangleleft or \triangleright to select **On**. Select **Off** for the other two colours.



- Press ∇ or Δ to select **Colour** or **Tint**, and then press \triangleleft or \triangleright to adjust.

Resetting the advanced picture settings

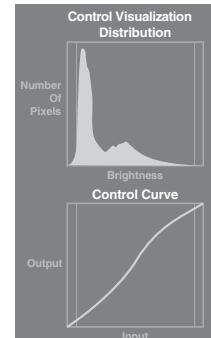
This feature allows you to reset the current Advanced Picture Settings to the default values.

- From the **Advanced Picture Settings** menu, press ∇ or Δ until **Reset** is selected.
- Press **OK**.

Viewing the Control Visualization

This feature displays the brightness histogram and control curve of each scene.

- From the **PICTURE** menu, press ∇ or Δ until **Control Visualization** is selected, and then press **OK**. The histogram window will appear.

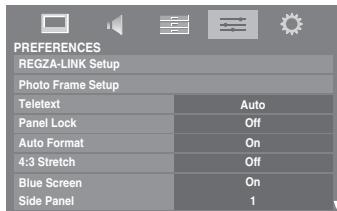


- Press **RETURN** to return to the previous menu.

Using Auto Format

When the TV receives a true HDMI signal picture and Auto Format is On, the picture will automatically be displayed in HDMI signal format, irrespective of the TV's previous setting. When in Digital TV mode, the display format will follow the broadcasted format.

- 1 Press **MENU**, and then press **<** or **>** to display the **PREFERENCES** menu.



- 2 Press **▽** or **△** to select **Auto Format**, and then press **<** or **>** to select **On** or **Off**.

Sound adjustment

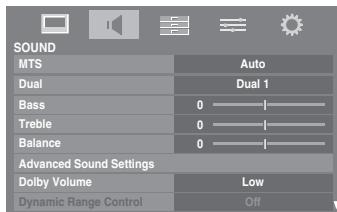
Setting the MTS (Multi-channel TV Sound)

- analogue only -

Auto mode

The MTS Auto mode automatically recognizes stereo/bilingual programmes depending on the broadcast signal.

- 1 Press **MENU**, and then press **<** or **>** to display the **SOUND** menu.



- 2 Press **▽** or **△** to select **MTS**, and then press **<** or **>** to select **Auto** or **Mono**.

Mono mode

If you experience noise or poor reception of any stereo/bilingual programme, set the **MTS** mode to **Mono**. Noise will be reduced and reception may improve.

Note:

*If you experience noise with a particular programme whose channel reception is usually good, try setting MTS mode to **Auto**, and then switch **(DVI)** to **□** Mono (monaural).*

Selecting Dual 1 or Dual 2 mode

You can hear only Dual 1 or Dual 2 sound, when bilingual programmes are received.

- 1 From the **SOUND** menu, press **▽** or **△** to select **Dual**.
- 2 Press **<** or **>** to select **Dual 1** or **Dual 2**.

Notes:

- When the MTS setting is in **Mono** mode, the **Dual** menu is not selectable.
- The **Dual** menu setting status is stored even when the TV is turned off.

Stereo and Bilingual transmissions

For ATV programmes

If stereo or dual language broadcasts are transmitted, the word **Stereo** or **Dual** will appear on the screen each time positions are changed, disappearing after a few seconds. If the broadcast is not in stereo, the word **Mono** will appear.

Stereo... Press **(DVI)** to select **Stereo** or **Mono**.

Bilingual... Bilingual transmissions are rare. If they are transmitted, the word **Dual** will display. Choose the desired channel number, and if the word **Dual** appears, press **(DVI)** to select **Dual 1**, **Dual 2**, **Mono** (NICAM) or **Dual 1** or **Dual 2** (German stereo/bilingual broadcast).

For DTV programmes

For stereo or dual mono broadcasts, press **(DVI)**, and then use **<** or **>** to select settings.

Mode Display	Pressing >
□ Stereo	Stereo → Left → Right
● Dual mono	Dual 1 → Dual 2 → Dual
□ Mono	—
○ Surround	—

Adjusting the sound quality

- 1 From the **SOUND** menu, press **▽** or **△** to select the item you want to adjust.
- 2 Press **<** or **>** to adjust the settings as desired.

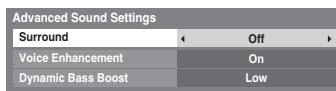
Selection	<	Pressing	>
Bass	weaker		stronger
Treble	weaker		stronger
Balance	decreases the right channel		decreases the left channel

Using the Advanced Sound Settings

Surround and **Dynamic Bass Boost** help to create an enhanced surround sound experience with deep, rich bass from stereo sound sources. Your TV's audio will sound fuller, richer, and wider.

Voice Enhancement helps to emphasize dialogue. It will be easier to hear voices over other background audio.

- 1 From the **SOUND** menu, press ∇ or Δ to select **Advanced Sound Settings**, and then press **OK**.
- 2 Press ∇ to select **Surround**, and then press \leftarrow or \rightarrow to select **Off**, **Spatial** or **Cinema**.



Voice Enhancement: To turn the vocal emphasis effect **On** or **Off**.

Dynamic Bass Boost: To select the desired bass expansion level (**Off**, **Low**, or **High**).

Note:

Ext. Woofer is displayed instead of **Dynamic Bass Boost** when **Woofer** is set to **External** in the **AV Connection** menu (☞ page 35).

Using Dolby Volume

This feature provides a consistent sound volume regardless of programmes, channels or input sources.

- 1 From the **SOUND** menu, press ∇ or Δ to select **Dolby Volume**.
- 2 Press \leftarrow or \rightarrow to select **Low**, **High** or **Off**.

Notes:

- This feature does not affect the audio signal output from the **DIGITAL AUDIO OUT** and **MONITOR** output terminals.
- If you feel it is hard to listen to audio due to signal status, turn off Dolby Volume.

Other feature settings

Activating Blue Screen

With the Blue Screen function **On**, the screen will automatically turn blue and the sound will be muted when no signal is being received.

- 1 From the **PREFERENCES** menu, press ∇ or Δ to select **Blue Screen**.
- 2 Press \leftarrow or \rightarrow to select **On** or **Off**.

Activating 4:3 Stretch

When **4:3 Stretch** is activated the size switching system changes 4:3 programmes into full screen picture.

- 1 From the **PREFERENCES** menu, press ∇ or Δ to select **4:3 Stretch**.
- 2 Press \leftarrow or \rightarrow to select **On** or **Off**.

Adjusting Side Panel

You can adjust the brightness of the side panels in 14:9 or 4:3 mode.

- 1 From the **PREFERENCES** menu, press ∇ or Δ to select **Side Panel**.
- 2 Press \leftarrow or \rightarrow to adjust the settings as desired.



Panel Lock

Panel Lock disables the buttons on the TV. All buttons on the remote control can still be used.

- 1 From the **PREFERENCES** menu, press ∇ or Δ to select **Panel Lock**.
- 2 Press \leftarrow or \rightarrow to select **On** or **Off**.

Note:

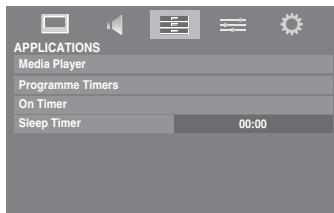
When **Panel Lock** is **On**, a reminder will appear when the buttons on the TV are pressed. If the standby button is pressed, the TV will switch off and can only be brought out of standby by using the remote control.

The timers

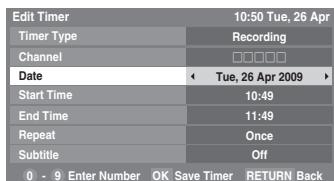
Setting a Programme Timer - digital only -

This feature will set the television to go to a specific channel at a certain time. It can be used to view a particular programme, or by setting the mode to daily or weekly, can be used to view a series of programmes.

- 1 Press **MENU**, and then press \triangleleft or \triangleright to select the **APPLICATIONS** menu.



- 2 Press ∇ to select **Programme Timers**, and then press **OK**.
- 3 Press ∇ if necessary to select an open timer position, and then press **OK**. The **Edit Timer** menu will now appear on screen.
- 4 Press ∇ or Δ to go through the list adding the details of the programme by using the number buttons and \triangleleft or \triangleright to make selections.



- 5 When all the details have been entered press **OK** to save the timer.

The Programme Timer indicator (page 9) will appear orange. When the programme timer activates the indicator will change from orange to red.

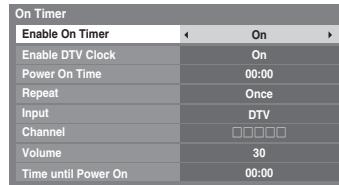
Note:

When a timed programme is about to start, an information screen will appear offering the option of watching or cancelling the programme. The menus and other channels will not be available during the timed programme unless the programme timer is cancelled. The programme timer you set is not performed when the TV is turned off with the $\odot/\!\!$ POWER switch.

On Timer

The feature allows you to set the TV to turn on automatically to a preset channel or input at a certain time of day or after a certain length of time. When **On Timer** is set to **On**, the green on timer indicator on the front of the TV is lit (page 9).

- 1 From the **APPLICATIONS** menu, press ∇ to select **On Timer**, and then press **OK**.
- 2 Press ∇ or Δ to select **Enable On Timer**, and then press \triangleleft or \triangleright to select **On**.



- 3 Press ∇ to select **Enable DTV Clock**, and then press \triangleleft or \triangleright to select **On** or **Off**.
- 4 Press ∇ or Δ to go through the list adding the details of the on timer by using the number buttons and \triangleleft or \triangleright to make selections.

Power On Time (only for DTV Clock On mode): Set the time you prefer with the number buttons.

Repeat (only for DTV Clock On mode): Select the desired on timer operation (**Once, Everyday, Mon-Fri, Mon-Sat, Sat-Sun**).

Input: Select a video input source (ATV, DTV, EXT 1, EXT 2, EXT 3, EXT 4, HDMI 1, HDMI 2, HDMI 3, HDMI 4 or PC).

Channel: Set the channel that will be tuned when the TV turns on.

Note:

When an external input is selected in the Input field, this feature cannot be selected.

Volume: Select the volume level that will be set when the TV turns on.

Time until Power On (only for DTV Clock Off mode): Set the amount of time from now until the TV turns on using the number buttons (maximum of 12 hours and 50 minutes).

To cancel the On Timer

- 1 In the **On Timer** menu, select **Enable On Timer**.
- 2 Press \triangleleft or \triangleright to select **Off**.

Setting the Sleep Timer

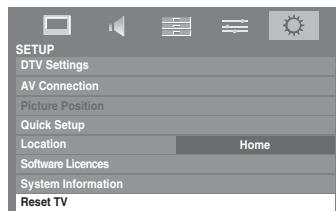
The Sleep Timer is especially useful if you want the TV to turn itself off after a selected period of time.

- 1 From the **APPLICATIONS** menu, press ∇ or Δ to select **Sleep Timer**.
- 2 Press the **Number** buttons (0-9) to enter the amount of time until the TV turns off. Alternatively, press \leftarrow or \rightarrow to adjust the time in blocks of 10 minutes up to 12 hours and 50 minutes.
- 3 Press **OK** to start the timer.

Resetting the TV

Reset TV will reset all TV settings, including stored channels, to their original factory values.

- 1 From the **SETUP** menu, press ∇ or Δ until **Reset TV** is selected.



- 2 Press **OK** to select.

A screen will appear warning that all settings will be lost. Select **Yes**, and then press **OK** to continue.

When the set powers back on, the **Quick Setup** screen will appear (☞ page 13). Press **OK** to continue, and proceed to the **Auto Tuning** menu (☞ page 15).

Channel List

- 1 Press the **LIST** button. The **Channel List** will appear.

Digital TV	Analogue TV
Channel List	Channel List
6 □□□	1 □□□
9 □□	2 □□□□□
11 □□□	3 □□□
31 □□□□□	4 □□□□□
34 □□□□	5
36 □□□□□□□	6
48 □□□□	7
52 □□□	8
200 □□□□□	9
201 □□□□	10

- 2 Press ∇ or Δ to highlight a channel or input, and then press **OK** to watch.

Selecting the video input source

- 1 At any time by pressing \odot on the remote control or TV, a list will appear on screen showing all inputs and external equipment.

Pressing \odot on the remote control

Inputs
TV
\odot 1
\odot 2
\odot 3
\odot 4
HDMI 1
HDMI 2
HDMI 3
HDMI 4
PC

Pressing \odot on the TV right side panel

Inputs
DTV TV
DTV RADIO *
DTV TEXT *
\odot 1
\odot 2
\odot 3
\odot 4
HDMI 1
HDMI 2
HDMI 3
HDMI 4
PC
ATV

* If radio or text channels are currently available for DTV.

HDMI™ displays equipment connected to HDMI inputs on the back or side of the TV.

PC displays a computer connected to the RGB/PC input on the back of the TV.

- 2 Press **OK**.

TV (Digital TV or Analogue TV),

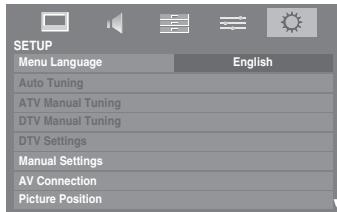
\odot 1 (\odot 1), video 1 input),
 \odot 2 (\odot 2), video 2 input) or \odot 2S (S-video input),
 \odot 3 (\odot 3), component video input),
 \odot 4 (\odot 4), component video input),
HDMI 1, HDMI 2, HDMI 3, HDMI 4 (HDMI input),
PC (\odot RGB/PC, PC input)

Notes:

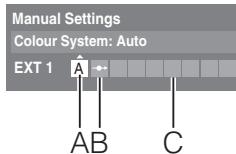
- When component video, PC, or HDMI input modes are selected, the **MONITOR** terminals (☞ page 35) output audio signal only.
- If a REGZA-LINK device is connected to an HDMI input, the **REGZA-LINK** icon will appear.
- When the TV is switched on, it will take a few minutes for the **REGZA-LINK** icon to appear in the list; when an HDMI cable is removed, it will take a few minutes for the icon to disappear.
- If the HDMI cable from a connected device or an HDMI setting for a connected device is changed, **Enable REGZA-LINK** in the **REGZA-LINK** menu may need to be reset to **On**.

Setting the Manual Settings

- 1 Press **MENU**, and then press **◀** or **▶** to display the **SETUP** menu.



- 2 Press **▽** or **△** to select **Manual Settings**, and then press **OK**.
- 3 Press **◀** or **▶** to select an item, and then press **▽** or **△** to select the item as shown below.



A. Colour System

Confirm that colour system is set to “**A**” (Auto). If not, select “**A**” with **▽** or **△**.

B. External input skip

Press **▽** or **△** to turn the external input skip option on “**↔**” or off “**↔↔**”.

The input set to skip is greyed out in the Inputs selection window and skipped over when you press **↔** on the remote control.

C. Label

The label allows you to label the selected input source. To change or create labels:

- 1) Press **▽** or **△** repeatedly to select a character for the first space, and then press **▷**.

[A-Z↔Z↔(↔)↔*↔+↔,↔-↔.↔/↔0↔9↔“↔]
*(blank space)

- 2) Repeat step 1 to enter the rest of the characters. If you would like a blank space in the label name, you must choose a blank space from the list of characters.

- 3) Press **OK** to store your settings.

Note:

This feature is not available in DTV, ATV, and PC inputs modes.

Using REGZA-LINK

This feature uses CEC (Consumer Electronics Controls) technology and allows the control of Toshiba REGZA-LINK compatible devices from the TV remote control via HDMI connection (page 41).

Note:

Not all Toshiba products currently support REGZA-LINK.

REGZA-LINK Setup

- 1 From the **PREFERENCES** menu, press **▽** or **△** to select **REGZA-LINK Setup**.
- 2 Press **OK**, and then press **▽** or **△** to select **Enable REGZA-LINK**.

REGZA-LINK Setup		
Enable REGZA-LINK	On	▶
TV Auto Power On	On	
Auto Standby	On	
Amplifier Control	On	
Speaker Preference	TV Speakers	

- 3 Press **◀** or **▶** to select **On** or **Off**.

Note:

*If you set **Enable REGZA-LINK** to **Off**, then all other items will be greyed out.*

- 4 Press **▽** or **△** to select the **REGZA-LINK Setup** item you want to use, and then press **◀** or **▶** to select **On/Off** or the desired speakers mode.
- **TV Auto Power On:** On/Off
 - **Auto Standby:** On/Off
 - **Amplifier Control:** On/Off
 - **Speaker Preference:** TV Speakers/Amplifier

REGZA-LINK functions

When **Enable REGZA-LINK** is set to **On**, the following functions can be enabled by setting them to **On**.

TV Auto Power On

The **TV Auto Power On** setting allows the TV to be automatically switched on if a REGZA-LINK device is turned on.

Auto Standby

If **Auto Standby** is enabled, the TV, when switched off, will automatically switch off (put into standby mode) all connected REGZA-LINK devices.

Amplifier Control

When **Amplifier Control** is set to **On**, it allows the “**Speaker Preference**” feature to become available.

Speaker Preference

This feature allows the **Speaker Preference** to be set to **TV Speakers** or **Amplifier**. The **Amplifier** option allows the remote control to adjust or mute the volume of the external audio.

Notes:

- When you turn on the amplifier, change its input source, or adjust the sound volume, the sound will be output from the amplifier's speakers even if **TV Speakers** has been selected. Turn the TV to standby and then on again to output the sound from the TV speakers.
- The above functions are dependent on the connected device and TV setting.

REGZA-LINK one touch play

When a connected device is switched on, REGZA-LINK will automatically switch the TV to the appropriate HDMI input. Also, if the TV is in standby, it will be switched on automatically.

These functions can be enabled or disabled from the **REGZA-LINK Setup**.

Note:

Even if the device is only showing a menu, the TV may automatically switch to that input source.

REGZA-LINK system standby

This feature automatically puts the connected device into standby when the TV goes into standby and vice versa.

REGZA-LINK system audio control

Using the Speaker Preference feature allows the TV remote control to adjust the volume or mute the sound of the speakers connected to the TV via an AV amplifier.

Ensure that the connected AV amplifier and REGZA-LINK device are selected in the input source selection and that **Speaker Preference** is set to **Amplifier** in the **REGZA-LINK Setup** menu or in the **Quick Menu**.

Notes:

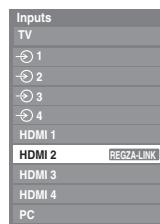
- When you turn on the AV amplifier, change its input source, or adjust the sound volume, the sound will be output from the AV amplifier's speakers even if **TV Speakers** has been selected for **Speaker Preference**. Turn the TV first to standby and then on again to output the sound from the TV speakers.
- The proper function may not work when operating the AV amplifier.

Note:

The above functions are dependent on the connected device and TV setting.

REGZA-LINK input source selection

When devices that use CEC technology have been connected, the REGZA-LINK icon will be displayed in the input source list.



To select the REGZA-LINK input source, refer to "Selecting the video input source" on page 27.

Notes:

- This function depends on the devices connected.
- If you select the REGZA-LINK input source from the popup window, some REGZA-LINK devices may automatically turn on.
- When the TV is switched on, it will take a few minutes for the **REGZA-LINK** icon to appear in the list; when an HDMI cable is removed, it will take a few minutes for the icon to disappear.
- If the HDMI cable from a connected device or an HDMI setting for a connected device is changed, **Enable REGZA-LINK** in the **REGZA-LINK Setup** menu may need to be reset to **On**.

To control the REGZA-LINK device

First, make sure that **Enable REGZA-LINK** in the **REGZA-LINK Setup** menu is set to **On**, then select the **HDMI** input source with the desired REGZA-LINK device connected. Next, switch the mode on the remote control to **REGZA-LINK** and press the available button on the remote control (☞ page 12).

The TV features that can be controlled by the connected device remote control are:

Power standby, Volume, Programme channel, Sound mute, Input selection, Number buttons, Previous channel.

Note:

These functions are dependent on the connected device. Not all the remote control buttons may be available. Please refer to the owner's manual for all the connected devices.

REGZA-LINK PC link

This feature automatically adjusts the suitable widescreen formats and picture preferences when connected to a REGZA-LINK PC.

Note:

This feature depends on the connected equipment.

Teletext

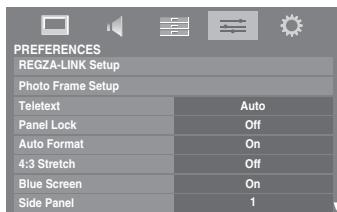
This TV has a multi-page teletext memory, and it offers two ways of viewing Teletext **Auto** and **LIST** which are explained below.

Setting the teletext mode

To select teletext mode:

Select a channel position with the desired teletext service.

- 1 Press **MENU**, and then press \triangleleft or \triangleright to display the **PREFERENCES** menu.



- 2 Press ∇ or Δ to select **Teletext**, and then press \triangleleft or \triangleright to select **Auto** or **LIST** mode.

Notes:

- It may take a few moments for the multi-page teletext memory to load.
- You must exit teletext mode in order to display the main menu.

Teletext general information

[TEXT] button:

Pressing **[TEXT]** once will bring up the teletext screen. Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV mode. You need to return to normal viewing if you wish to change channels.

When you first press **[TEXT]** to access the text service, the first page you see will be the initial page.

In **Auto** mode, this displays the main subjects available and their relevant page numbers.

In **LIST** mode, you will see the page numbers currently stored for **each colour** button.

Sub-pages

The pages on the screen will dynamically update as sub-pages are received.

If you open a page containing sub-pages, the sub-pages are automatically displayed in sequence. To quit automatic sub-page change, press \triangleleft or \triangleright .

Once selected, the sub-page you are viewing will be highlighted and, as the TV loads any additional sub-pages, the colour of the numbers will change, indicating that these pages have been loaded.

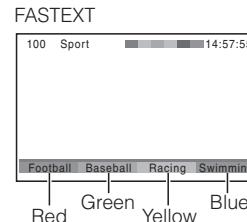
These sub-pages will remain available to view until another page is chosen or, in normal TV mode, the channel is changed.

Using Auto mode

There are two Teletext modes: **Auto** will display FASTEXT. **LIST** will display your four favourite pages. In either mode, as an alternative to the coloured buttons, you can access a page by entering a 3-digit number or by using the **P \wedge** / **P \vee** keys to go back and forth between pages.

To change between **Auto** and **LIST**, please see "Setting the teletext mode" on the previous page.

- Press **[TEXT]** to access teletext.



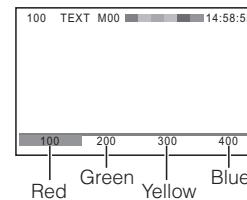
If FASTEXT is available, you will see 4 coloured titles at the bottom of the TV screen. To access any given subject, simply press the appropriate coloured button on the remote control.

If FASTEXT is not available, you can access any page simply by entering a 3-digit page number or pressing the corresponding coloured button.

For further information on your particular text system(s), see the broadcast teletext index page or consult your local Toshiba dealer.

Using LIST mode

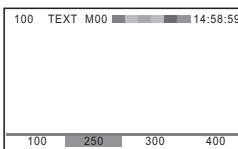
- 1 Press **[TEXT]** to access teletext.



The four choices at the bottom of the screen are now numbered – **100**, **200**, **300** and **400**.

Using the TV's features (General)

- 2 To view these pages, use the coloured prompt buttons, e.g. press the Green button to view page 200.
- 3 If you want to change the stored pages, press the coloured button for the colour you want to change, e.g. press the Green button and enter the 3-digit number.



This number will change in the top left of the screen and in the coloured highlight.

- 4 Press **OK** to store your choice.
- 5 You may view other pages by simply entering the 3-digit page number – but NEVER press **OK** or you will lose the favourite already stored.

Teletext buttons on the remote control

Below is an introduction to the teletext buttons on your remote control and their functions.

≡i To display the index/initial page:

In Auto-mode

Press **≡i** to access the index page. The one displayed is dependent on the broadcaster.

In LIST-mode

Press **≡i** to return to the 100 page or initial page.

≡? To reveal concealed text:

Some pages cover topics such as quizzes and jokes. To discover the solutions, press **≡?**.

≡\$ To hold a specific page:

At times it is convenient to hold a page of text. Press **≡\$** and **≡\$** will appear in the top left of the screen. The page will be held on screen until the button is pressed again.

≡% To enlarge the teletext display size:

Press **≡%** once to enlarge the top half of the page, and press again to enlarge the bottom half of the page. Press again to revert to the normal size.

⊕/⊖ To select a page while viewing normal picture:

When in teletext mode, if a page selection is made and then **⊕/⊖** is pressed, normal picture will be displayed. The TV will indicate when the page is present by displaying the title bar of the text page at the top of the screen. Press **TEXT** to view the page.

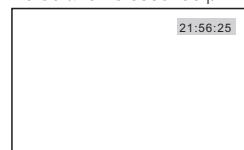
Note:

*It will not be possible to change TV channels while in Teletext mode. You will have to cancel Teletext first by pressing **TEXT** to return to normal TV picture.*

To select the time display - analogue only -:

If you press **⊕/⊖** while watching a normal TV broadcast, you will see a time display from the broadcaster. It will remain on the screen for about 5 seconds.

9:56 and 25 seconds p.m.



Subtitles

1 Press **SUBTITLE** on the remote control to display the current Subtitle status. While this status is displayed, press again to change the setting.

2 If you switch off the TV, the **Subtitle** mode will be remembered the next time the TV is switched ON.

Notes :

- If **Subtitle** is On, the TV will always display subtitles whenever such information is available for the channel you are viewing. In DTV mode, you may use on-screen information to check if subtitles are currently available.
- You may also enter Subtitle mode by directly entering page 801 in Teletext. However, by doing so, the TV remains in Teletext mode, and you cannot change the channels. This is because **P▲** and **P▼** will change Teletext pages rather than channels. To view subtitles, it is recommended that you turn on Subtitle mode directly by pressing **SUBTITLE** on the remote control while watching TV.

Other Digital TV features and settings

Using the EPG (Electronic Programme Guide)

- 1 Select the on-screen guide by pressing **GUIDE**, the guide screen will appear highlighting details of the channel and programme currently being viewed. This may take a few moments to appear.

--- Thu ---		10:50 Tue, 6 Apr				
TV		18:00	18:30	19:00	19:30	20:00 -->
6	□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□
9	□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□
11	□□□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□
31	□□□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□
34	□□□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□	□□□□□□□□□□
800	□□□□□□					
801	□□□□□□					
802	□□□□□□					
804	□□□□□□					
806	□□□□□□					
807	□□□□□□					
808	□□□□□□					
809	□□□□□□					

You can switch the time scale to 1.25 or 2.5 hours by pressing the **GREEN** button.

Note:

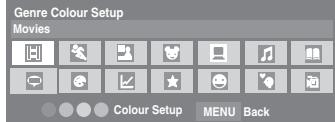
Pressing the **ATV/DTV** button will switch the service type.

- 2 Press **<|** or **|>** for information on other programmes scheduled for the channel selected. To highlight the first programme in the genre grid, press the **RED** button.
- 3 For details of other programmes currently available, press **▽** or **△** to scroll up or down the channel list. As channels are selected, details of the programme currently being broadcast will appear. Press **<|** or **|>** to view information for future programmes.
- 4 For information on a highlighted programme press **OK**.
- 5 To set a timer for a selected programme (if a future programme), press **OK**. Pressing the **BLUE** button will jump to the **Programme Timers** menu.
- Note:**
In order for the recording operation to work properly, the media recorder must be set to the same time as the TV. Regarding the process for recording, please refer to the owner's manual of the recording equipment.
- 6 Press **Pv** to advance to the next page, or press **Pa** to go back to the previous page.

Using the Genre Colour Setup/Search

From the guide screen, you can use the genre selection and search features.

- 1 Press the **OK** button from the guide screen.
- 2 Press **▽** or **△** to highlight **Genre Colour Setup** in the **Quick Menu**, and then press **OK**.



- 3 With the focus on a particular genre, press the desired colour key to assign. Four colours will be available to set. Press **RETURN** to go back to the guide screen.
- 4 Press the **YELLOW** button from the guide screen to access the **Genre Search** screen.

Genre Search			10:50 Tue, 6 Apr
Movies	TV	Search	
34 □□□□□	□□□□□	Wed,27 Apr 0:15- 1:45	
31 □□□□□	□□□□□	Wed,27 Apr 22:15- 23:55	
11 □□□□□	□□□□□	Thu,28 Apr 1:20- 3:00	
9 □□□□□	□□□□□	Fri,29 Apr 1:30- 3:00	
34 □□□□□	□□□□□	Sat,30 Apr 0:45- 2:40	
11 □□□□□	□□□□□	Sat,30 Apr 1:15- 3:00	
31 □□□□□	□□□□□	Sat,30 Apr 15:00- 17:30	
9 □□□□□	□□□□□	Sat,30 Apr 23:20- 1:15	
11 □□□□□	□□□□□	Sun,1 May 0:40- 2:00	
31 □□□□□	□□□□□	Sun,1 May 0:40- 2:20	
11 □□□□□	□□□□□	Sun,1 May 21:10- 23:20	
11 □□□□□	□□□□□	Sun,1 May 23:20- 1:15	
34 □□□□□	□□□□□	Mon,1 May 1:10- 3:00	

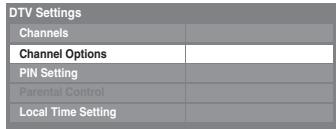
- 5 Press **<|** or **|>** to select the genre. Programmes listed will change for the new genre. Press **▽** or **△** to highlight a particular programme.
- 6 When a current programme is selected, pressing **OK** will tune to that programme. When a future programme is selected, pressing **OK** will open the **Edit Timer** menu.
- 7 For information on a highlighted programme press **I+**.
- 8 To exit the **Genre Search** and go back to the guide screen, press the **YELLOW** button.

Digital settings - Channel Options

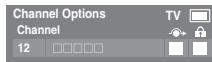
Skipping Channels

This feature allows you to set channels that will be skipped when **P▼** or **P▲** are used to tune.

- From the **DTV Settings** menu, press **▽** or **△** to select **Channel Options**.



- Press **OK**.



- Press **▽** or **△** to select a channel position to be skipped. Press **OK** to set. A tick will appear in the box.

- Press **EXIT**.

Note:

*Skipped channels cannot be selected by **P▼** or **P▲** but can still be accessed by direct number entry (when tuned a icon will be displayed in the banner to indicate as a skipped channel).*

Locking Channels

Locking Channels stops the viewing of **digital** channels. Locked channels can only be accessed by entering the PIN.

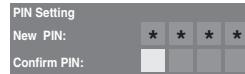
- From the **DTV Settings** menu, press **▽** or **△** to select **Channel Options**.
- Press **OK**, and then press **<** or **>** to select the Locked Channel list.
- Press **▽** or **△** to select a channel position to be locked. Press **OK** to set. A tick will appear in the box. PIN entry is required to set locked channels.
- Press **EXIT**.
- From this point on, when any of the channels in the **Locked Channel** list are selected the PIN must be entered before they can be viewed.

Digital settings - PIN Setting

In order to prevent unwanted access to certain menus and settings, a security PIN code can be set.

Setting the PIN

- From the **DTV Settings** menu, press **▽** or **△** to select **PIN Setting**, and then press **OK**.
- Using the number buttons, enter a four digit number. Once entered you will be prompted to confirm by entering again.



The PIN is now set to Enabled. Press **MENU** to go back to **DTV Settings**.

If the PIN code has been set, when **Auto Tuning** and **Reset TV** are executed, it will be necessary to enter the PIN.

Parental Setup

The Parental Control feature allows you to block programmes according to their rating levels. If a PIN has been set, you will need to enter it before adjusting the level.

- From the **DTV Settings** menu, press **▽** to select **Parental Control**.



- Press **<** or **>** to choose the desired **Parental Setup** option (**None**, **Block All**, **Block G and Above**, **Block PG and Above**, **Block M and Above**, **Block MA and Above**, **Block AV and Above**, **Block R and Above**).

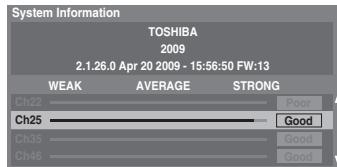
To view blocked programmes, enter the PIN.

To reactivate the Parental Control, turn the TV off and then on again.

Using the System Information

This feature can be used to check the version of software currently installed. When in DTV mode, it includes additional diagnostic information such as signal strength, signal quality, centre frequency, modulation, etc.

- 1 From the **SETUP** menu, press ∇ or Δ until **System Information** is selected.
- 2 Press **OK** to display the **System Information**.



Local Time Settings

This function allows you to manually set the time zone. Please note that if you manually change the time zone setting, all existing entries under Programme Timers will become invalid as they are still based on the old time zone. It is recommended that you delete all entries under Programme Timers before proceeding with the steps described below.

- 1 From the **DTV Settings** menu, press ∇ or Δ to select **Local Time Setting**.
- 2 Press **OK**, and then press ∇ or Δ to select **Time Zone**.
- 3 Press \triangleleft or \triangleright to select the item you want to set. (**New South Wales, Northern Territory, Queensland, South Australia, Tasmania, Victoria, Western Australia, Australian Capital Territory**)



- 4 Press ∇ to select **Local Time**, and then press \triangleleft or \triangleright to set as required.

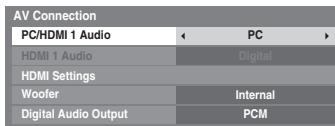
Viewing the Software Licences

The licences for the software used in this TV are available for viewing on screen.

- 1 From the **SETUP** menu, press ∇ or Δ until **Software Licences** is selected.
- 2 Press **OK**.
A screen will appear displaying all of the licensing information required for the TV's software.

Digital Output Format

- 1 From the **SETUP** menu, press ∇ or Δ to select **AV Connection**, and then press **OK**.
- 2 Press ∇ or Δ to select **Digital Audio Output**.



- 3 Press \triangleleft or \triangleright to select **Auto** or **PCM**
Auto: This mode outputs Dolby Digital or PCM to the digital audio output socket providing it is being broadcast.
PCM: Select this when a 2ch digital stereo amplifier is connected to the TV. When you select a Dolby Digital or MPEG audio track, the sound is converted to the PCM (2ch) format and output.

Dynamic Range Control

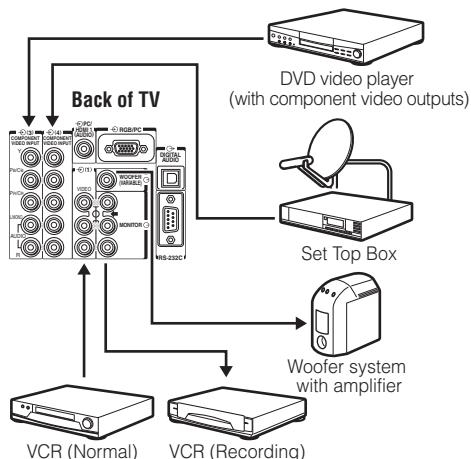
This feature allows control of audio compression for digital TV programmes excluding those with MPEG-1 and MPEG-2 audio.

- 1 From the **SOUND** menu, press ∇ or Δ to select **Dynamic Range Control**.
- 2 Press \triangleleft or \triangleright to select **On** or **Off**.

Connecting your TV

Back connections

Connection example



- Before connecting any external equipment, turn off all main power switches.
- The unauthorized recording of TV programmes, DVDs, video tapes and other materials may infringe upon the provisions of copyright law.
- The **COMPONENT VIDEO INPUT** consists of three component video signals (**Y**, **P_b/C_b**, **P_r/C_r**) and provides better picture performance. These terminals can only be used with component video compatible equipment e.g. DVD video player, etc.
- Additional equipment and cables shown are not supplied with this TV.

Selecting the Woofer

Connect an external woofer to the Woofer output terminal located on the rear of the TV.

1 From the **AV Connection** menu, press ∇ or Δ to select **Woofer**.

2 Press \leftarrow or \rightarrow to select **Internal** or **External**.

Internal : Select to use the Dynamic Bass Boost.

External : Select to use an external woofer system.

Connecting an audio system - digital only

You can enjoy high quality dynamic sound by connecting the TV to an audio system.

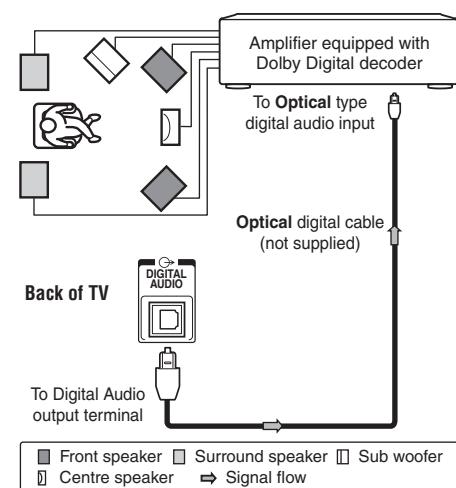
Notes:

- DO NOT connect the **DIGITAL AUDIO** output terminal to the AC-3 RF input of a Dolby Digital Receiver with a built-in Dolby Digital decoder.
- Connect the **DIGITAL AUDIO** output terminal to the **OPTICAL** input of a receiver or processor.
- Refer to the owner's manual of the connected equipment as well.
- When you connect the TV to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
- The output sound of the TV has a wide dynamic range. Be sure to adjust the audio amplifier's volume to a moderate listening level before turning on the power. Otherwise, the speakers and your hearing may be damaged by sudden high volume audio.
- Turn off the amplifier before you connect or disconnect the TV's power cord. If you leave the amplifier power on, the speakers may be damaged.

Warning:

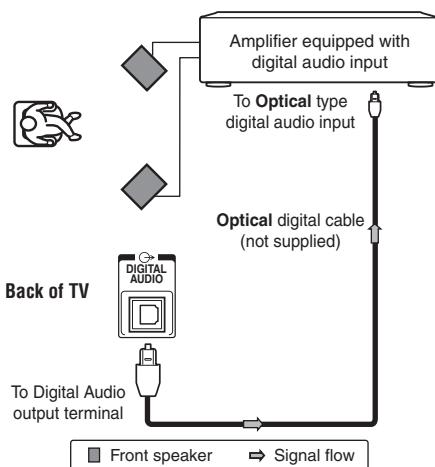
When you are connecting (via the **DIGITAL AUDIO** output terminal) an AV decoder that does not have Dolby Digital decoding function, be sure to set **PCM** for Digital Output (see page 34). Otherwise, the speakers and your hearing may be damaged by sudden high volume audio.

Connecting an amplifier equipped with a Dolby Digital decoder



You can enjoy dynamic realistic sound by connecting the TV to an amplifier equipped with a Dolby Digital decoder or Dolby Digital processor. When using this setup, select **Auto** in the Digital Output menu.

Connecting an amplifier equipped with a digital audio (optical) input



You can enjoy the dynamic sound of a 2-channel digital stereo by connecting the TV to an amplifier equipped with a digital audio (optical) input and speaker system (right and left front speakers). When using this setup, select **PCM** in the Digital Output menu.

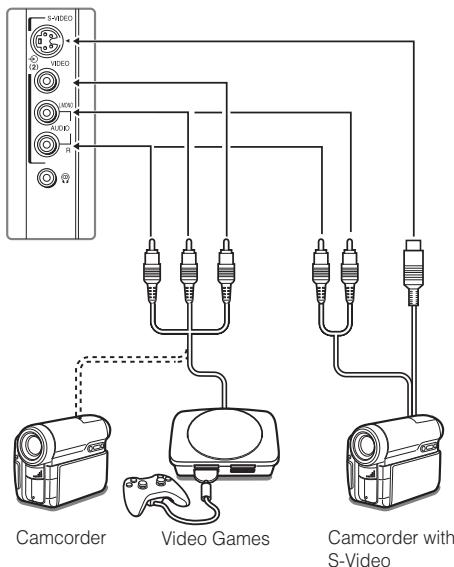
Side connections

You can connect a wide variety of auxiliary equipment via the terminals located on the right side of the TV \ominus (2).

Please always refer to the owner's manual of the equipment to be connected for full details.

Connection example

Right side of the TV



- To select the side inputs, press \ominus to display the video input mode list, press ∇ or Δ to select \ominus 2 (page 27), and then press OK .
- Before connecting any external equipment, turn off all main power switches.
- If you connect to both the **S-VIDEO** input terminal and **VIDEO** input terminal, the **S-VIDEO** signal will appear on the screen (display changes to \ominus 2S).
- If you connect mono sound equipment to \ominus (2), connect the audio output of the equipment to the **L / MONO** jack on the TV.
- You can enjoy video games with this TV. However, shooting games, where the player shoots at a target on the TV screen with a light gun may not work because of the properties of the LCD Colour TV.

Connecting HDMI and DVI devices

- When turning on your electronic components, turn on the TV first, and then the HDMI or DVI device.
- When turning off your electronic components, turn off the HDMI or DVI device first, and then the TV.
- This TV may not be compatible with features and/or specifications that may be added in the future.
- This TV is only operable with L-PCM on 32/44, 1/48 kHz and 16/20/24 bits. If there is no sound when using HDMI, use the analogue audio cables to connect the TV and the HDMI device and select **Analogue for HDMI 1 Audio** of the **AV Connection** menu (page 38).

Connecting HDMI and DVI devices

The HDMI input on your TV can receive digital audio and uncompressed digital video from an HDMI device and uncompressed digital video from a DVI device.

This input is designed to accept HDCP programme material in digital from CEA-861-D compliant consumer electronic devices (such as a set top box and DVD player with HDMI and DVI output).

The HDMI input is designed for best performance with 1080i (50 Hz/60 Hz), 1080p (24Hz/50Hz/60Hz) high-definition video signals, but will also accept and display 480i, 480p, 576i, 576p, 720p (50 Hz/60 Hz) and VGA (VESA 640×480 @ 60/72/75 Hz) signals.

- HDMI:** High-Definition Multimedia Interface
- DVI:** Digital Video Interface
- HDCP:** High-bandwidth Digital Content Protection
- CEA-861-D compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.

- Acceptable PC signal format:

S-VGA: VESA 800 × 600 @ 56/60/72/75 Hz

XGA: VESA 1024 × 768 @ 60/70/75 Hz

W-XGA: VESA 1280 × 768 @ 60/75 Hz

W-XGA: VESA 1360 × 768 @ 60 Hz

S-XGA: VESA 1280 × 1024 @ 60/75 Hz

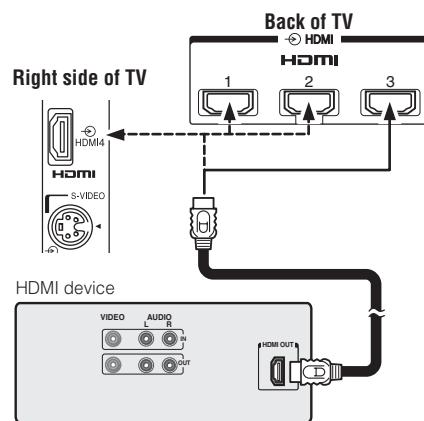
However, these signal formats are converted to match the number of pixels of the LCD panel.

Therefore, the TV may not display small text properly.

- L-PCM:** Linear-Pulse Code Modulation

Connecting an HDMI device

One HDMI cable (type A connector) is needed.



For proper operation, it is recommended that you use a short HDMI cable.

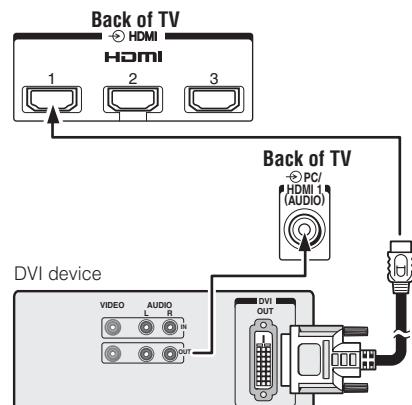
HDMI cable transfers both video and audio.

Note:

It is possible that some HDMI devices may not operate properly with this TV.

Connecting a DVI device

One HDMI (type A connector)-to-DVI adapter cable and analogue audio cables are needed.



HDMI (type A connector)-to-DVI adapter cable

For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 3m. The recommended length is 2m.

Standard analogue audio cables

An HDMI-to-DVI adapter cable transfers only video. Separate analogue audio cables are required.

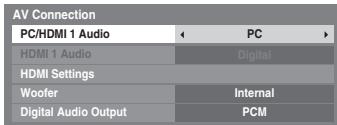
Selecting the PC/HDMI 1 audio mode

You can select PC audio or HDMI 1 audio when using this function.

- 1 Press **MENU**, and then press \triangleleft or \triangleright to display the **SETUP** menu.



- 2 Press ∇ or Δ to select **AV Connection**, and then press **OK** to display the **AV Connection** menu.



- 3 Press ∇ or Δ to select **PC/HDMI 1 Audio**, and then press \triangleleft or \triangleright to select **PC** or **HDMI 1**.

Setting the HDMI 1 audio mode

You can select from three sound modes for an HDMI or DVI device connected to the HDMI 1 input terminal: **Auto**, **Digital** or **Analogue**.

Note:

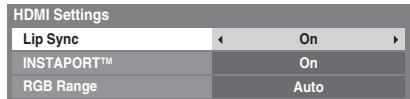
*This function is available only when the PC/HDMI 1 Audio mode is set to **HDMI 1**.*

- 1 From the **AV Connection** menu, press ∇ or Δ to select **HDMI 1 Audio**.
- 2 Press \triangleleft or \triangleright to select **Auto**, **Digital** or **Analogue**.

Selecting the HDMI settings

The HDMI Settings menu consists of the following 3 items: **Lip Sync**, **INSTAPORT™** and **RGB Range**. Some early HDMI equipment may not work properly with your HDMI TV. If you experience trouble, unplug your HDMI cable first and then try setting the first two options to **Off**. This should allow your early HDMI source to operate properly with your TV.

- 1 From the **AV Connection** menu, press ∇ or Δ to select **HDMI Settings**, and then press **OK**.



- 2 Press ∇ or Δ to select each item, and then press \triangleleft or \triangleright to select the desired setting.

Lip Sync mode

This option activates an audio/video display timing adjustment function that allows HDMI source devices to accurately perform synchronization automatically.

All of the above HDMI settings require a proper HDMI source device.

If HDMI source products do not support these functions, the TV may not work properly when activating these functions.

INSTAPORT™ mode

This feature reduces the lag time when switching HDMI sources.

RGB Range mode

This feature adjusts RGB full range signal automatically. When **Limit** is selected, RGB output signal is output in the range from 16 to 235. When **Full** is selected, RGB output signal is output in the range from 0 to 255.

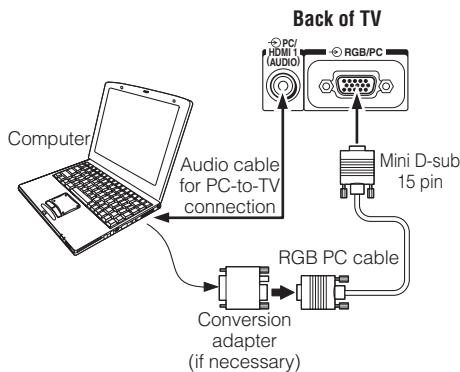
Notes:

- In a non-HDMI signal mode, this function is not available.
- If your HDMI connection is capable of 1080p and/or your TV is capable of refresh rates greater than 60Hz or supports Deep Colour, you will need a Category2 cable. Conventional HDMI/DVI cables may not work properly with this mode.

Connecting a computer

To connect a PC to the RGB/PC terminal on the TV:

An analogue RGB (15 pin) computer cable can be connected.



Connect a PC cable from the computer to the **RGB/PC** terminal on the back of the TV.

The following signals can be displayed:

VGA: VESA 640 × 480 @ 60/72/75 Hz

S-VGA: VESA 800 × 600 @ 56/60/72/75 Hz

XGA: VESA 1024 × 768 @ 60/70/75 Hz

W-XGA: VESA 1280 × 768 @ 60/75 Hz

W-XGA: VESA 1360 × 768 @ 60 Hz

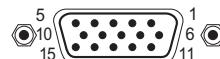
S-XGA: VESA 1280 × 1024 @ 60/75 Hz

Notes:

- Some PC models cannot be connected to this TV.
- There is no need to use an adapter for a computer with a DOS/V compatible mini D-sub 15 pin terminal.
- A bar may appear in the upper, lower, right or left side of the screen, or parts of the picture may be obscured depending on some signals. This is not a malfunction.
- If the edges of the picture are stretched, re-adjust the picture position adjustments in the **PC Settings** menu.
- Depending on the specification of the PC you are using the DVD-Video playing and the DVD's title, some scenes may be skipped, or you may not be able to pause during multi-angle scenes.
- The PC signal may not be detected correctly for certain PC models.

Signal names for mini D-sub 15 pin connector

Pin assignment for RGB/PC terminal

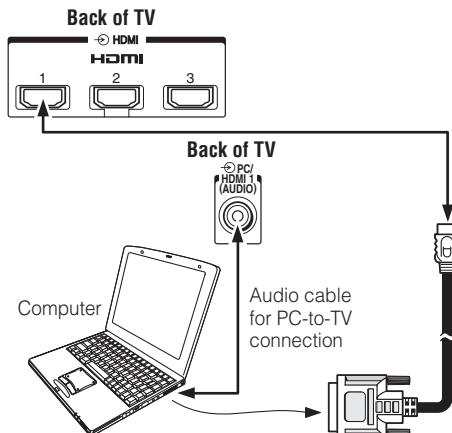


Pin No.	Signal name	Pin No.	Signal name
1	R	9	NC
2	G	10	Ground
3	B	11	NC
4	NC (not connected)	12	NC
5	NC	13	H-sync
6	Ground	14	V-sync
7	Ground	15	NC
8	Ground		

To connect a PC to the HDMI terminal on the TV:

When connecting a PC to the HDMI terminal on the TV, use an HDMI-to-DVI adapter cable and analogue audio cables.

If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). Separate analogue cables are not necessary.



For acceptable PC signal formats, see page 37.

Notes:

- The edges of images may be hidden.
- The PC signal may not be detected correctly for certain PC models.

Using the PC Settings

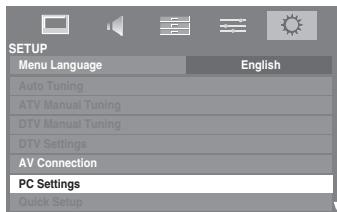
- Most of the picture controls and functions are available in both digital and analogue modes. However features not available will be greyed out.
- First, press \ominus to display the video input mode list, and then press ∇ or Δ and OK in order to select PC input mode (☞ page 27).
- The PC Settings function may not be available for some signals and when no signal is received.
- In certain cases, it may be difficult to optimally set the clock phase and sampling clock values depending on the input signal type.

Note:

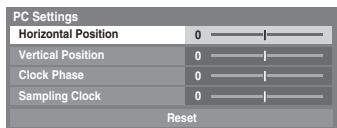
In PC input mode, **Manual Settings** (☞ page 28) is not displayed.

Adjusting the picture size/position

- Press **MENU**, and then press \leftarrow or \rightarrow to display the **SETUP** menu.
- Press ∇ or Δ to select **PC Settings**.



- Press OK to display the **PC Settings** menu.



- Press ∇ or Δ to select the option you want to adjust.
Press \leftarrow or \rightarrow to adjust the settings as desired.



Adjusting the clock phase of the picture

If the clock phase, which synchronizes the PC signal and LCD display, is not optimized, the picture will blur.

This function allows you to adjust clock phase and display a clear picture.

- From the **PC Settings** menu, press ∇ or Δ to select **Clock Phase**.
- Press \leftarrow or \rightarrow to obtain a clear picture.



Adjusting the sampling clock

If the sampling clock does not match with the dot clock frequency of the PC, picture details will be blurred, screen width will change, or drift patterns in vertical lines may be apparent.

This function allows you to adjust and optimize the picture.

- From the **PC Settings** menu, press ∇ or Δ to select **Sampling Clock**.
- Press \leftarrow or \rightarrow to optimize the picture.



Resetting the PC Settings

The Reset function adjusts the PC Settings to the factory settings.

- From the **PC Settings** menu, press ∇ or Δ to select **Reset**.
- Press OK .

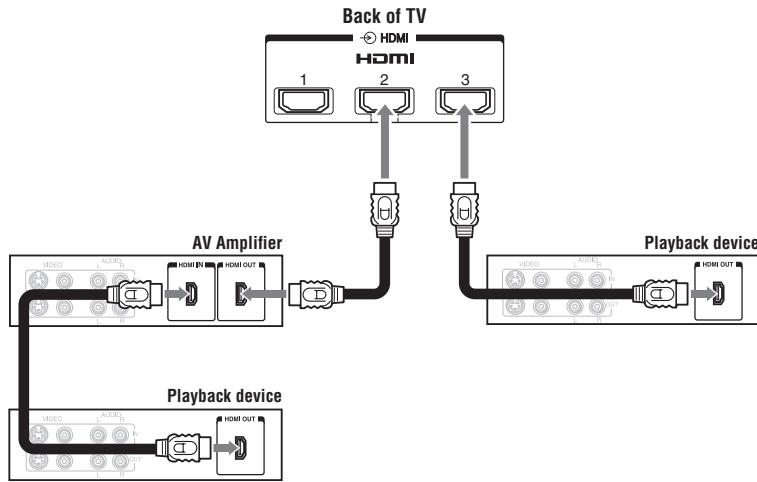
Note:

When a PC is connected using HDMI, none of these functions will be available.

REGZA-LINK connection

You can control the basic functions of connected audio/video devices using the TV's remote control if you connect a REGZA-LINK compatible audio receiver or playback device. For an explanation of setup and operations, see pages 28, 29.

Connection example



Before controlling the device(s):

- After completing the above connections, set the **REGZA-LINK Setup** menu as you desire (page 28).
- The connected devices must also be set. For details, see the owner's manual for each device.

Notes:

- If several devices are connected, the REGZA-LINK feature may not operate properly.
- The REGZA-LINK function uses CEC technology as regulated by the HDMI standard.
- For proper operation, it is recommended that you use HDMI cables with the HDMI Logo (**HDMI**).
- This function is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to the individual owner's manuals for compatibility information.
- This function is able to operate one PC and one AV amplifier, but the PC may not operate properly with the AV amplifier. Some PC models may not be controlled properly by the TV.

Using the Media Player

The TV allows you to enjoy photos, movies or music files stored on a USB device or an SD memory card (only for photos).

Notes:

- SD memory card is only available for viewing JPEG files.
- Do not insert/remove a USB device or an SD memory card while in use.
- **MENU** is not available during playback.

Media Player Specifications

Device

USB device:

USB Mass Storage Class devices (MSC)

Notes:

- Connectivity is not guaranteed for all devices.
- Connect the USB device to the TV directly.
- Do not use a USB hub.

SD memory card:

SD memory card: up to 2GB

SD High-Capacity Card (SDHC): 4 - 32GB

Note:

Do not use any SD memory cards other than those specified.

Supported file system

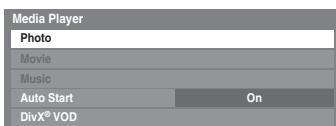
FAT12, FAT16 and FAT32

You must obtain any required permission from copyright owners to download or use copyrighted content. Toshiba cannot and does not grant such permission.

Basic operation

Auto start:

- 1 From the **APPLICATIONS** menu, highlight **Media Player**, and then press **OK**.



- 2 Press **▽** or **△** to highlight **Auto Start**.
- 3 Press **◀** or **▶** to select **On**.
- 4 Insert a USB device into the **USB** terminal or an SD memory card into the **SD card slot** on the right side of the TV.
- 5 A confirmation message will appear. Highlight **Yes**, and then press **OK**.
- 6 Press **▽** or **△** to select **Photo**, **Movie**, or **Music**, and then press **OK**. The thumbnail view (for Photo) or list of files (for Movie and Music) will appear.
- 7 Press **▽** or **△** to select the USB device or SD memory card if the selection window is displayed.

Note:

If **Auto Start** is set to **Off**, you can start the Media Player manually.

Manual start:

- 1 Insert a USB device into the **USB** terminal or an SD memory card into the **SD card slot** on the right side of the TV.
- 2 Press **▽** or **△** and highlight **Media Player**, and then press **OK**.
- 3 Press **▽** or **△** to select **Photo**, **Movie**, or **Music**, and then press **OK**. The thumbnail (for Photo) or list of files (for Movie and Music) will appear.
- 4 Press **▽** or **△** to select the USB device or SD memory card if the selection window appears

To select a file from the list of contents:

- 1 Press **▽**, **△**, **◀** or **▶** to select a file or folder.
- 2 Press **OK** to move to the next layer, or press **RETURN** to return to the previous layer.
If there are more pages in the list, press **P^** or **P▼** to move to the previous or next page.

To close the Media Player:

Press **EXIT**. The TV will return to the last-viewed channel or video input.

Playing DivX® files (only for USB devices)

Note:

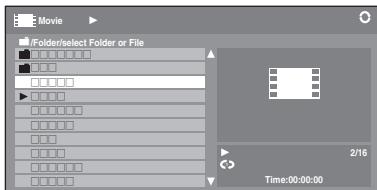
Some DivX® files will not play without registration of your TV. To playback those DivX files, register your TV to your DivX® account (right-hand column).

Basic Playback:

- After selecting a file (, "To select a file from the list of contents" on page 42), press or to begin playback.

Note:

- The Media Player memorizes the location where playback is stopped. The file resumes playback from the location where playback was stopped when you press next time. To start playback from the beginning regardless of the location where playback was stopped, press twice in Step 2 below.
- Depending on the file size, it may take some time to start playback.



- Press to stop playback.

- If playback finishes before is pressed, the next file will start playing automatically.

To pause playback:

Press during playback.

To resume normal playback, press .

To play in fast reverse or fast forward directions:

Press or during playback. Each time you press or , the playback speed will change.

- : Fast reverse playback
- : Fast forward playback

To locate a specific file:

Press or repeatedly to access the desired file.

- : Playback starts from the beginning of the current file. When you press twice quickly, playback starts from the beginning of the preceding file.
- : To locate subsequent files.

Note:

If the previous or next file is not compatible, it will be skipped automatically.

To select a language:

- Press repeatedly to select your preferred subtitle language.
- Press repeatedly to select your preferred audio language.

To set the repeat mode:

- Press .



- The current repeat setting will appear. Press or to select **Off**, **All** or **1**.

- Press or .

The setting is effective until the TV is turned off.

To display the file status information:

- Press during playback. The following information will be displayed on the bottom of the screen.

- File number/Total number of files (only for files stored in the same directory)
- Movie title
- Progress time
- Audio format
- Repeat status icon

- Press again to remove the information.

Note:

The file status information will disappear after about 6 seconds.

To register your TV to a DivX® account:

- From the **APPLICATIONS** menu, highlight **Media Player** and press .

- Press or to highlight **DivX® VOD**, and then press .

- A DivX® VOD window appears and you can find the eight character registration code.
For details on registration, visit the DivX website at <http://vod.divx.com/>

- Copy the activation file to a USB device and play it on the TV.

File Compatibility

File format: DivX®

Maximum video resolution: 720 × 480 (30 fps),

Total number of files: Less than 500 per folder

- **ABOUT DIVX VIDEO:**

DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified or DivX Ultra Certified device that plays DivX video.

- **ABOUT DIVX VIDEO-ON-DEMAND:**

This DivX® Certified device must be registered in order to play DivX Video-on-Demand (VOD) content. First generate the DivX VOD registration code for your device and submit it during the registration process.

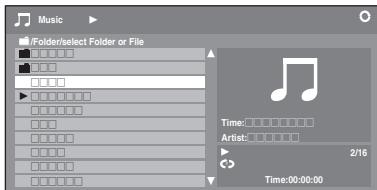
[Important: DivX VOD content is protected by a DivX DRM (Digital Rights Management) system that restricts playback to registered DivX Certified devices. If you try to play DivX VOD content not authorized for your device, the message "Authorization Error" will be displayed and your content will not play.]

Learn more at www.divx.com/vod.

Playing MP3 files (only for USB devices)

Basic Playback:

- 1 After selecting a file (☞ page 42), press **OK** or **▶** to begin playback.



Note:

- The Media Player memorizes the location where playback is stopped. The file resumes playback from the location where playback was stopped when you press PLAY the next time. To start playback from the beginning regardless of the location where playback was stopped, press **OK**.
- Depending on the file size, it may take some time to start playback.

- 2 Press **■** to stop playback.

If playback finishes before **■** is pressed, the next file will start playing automatically.

To pause playback:

Press **■** during playback.

To resume normal playback, press **▶**.

To play in fast reverse or fast forward directions:

Press **◀** or **▶** during playback. Each time you press **◀** or **▶**, the playback speed will change.

- **◀**: Fast reverse playback
- **▶**: Fast forward playback

To locate a specific file:

Press **◀** or **▶** repeatedly to access the desired file.

- **◀**: Playback starts from the beginning of the current file.
- When you press twice quickly, playback starts from the beginning of the preceding file.
- **▶**: To locate subsequent files.

Note:

If the previous or next file is not compatible, it will be skipped automatically.

To set the repeat mode:

- 1 Press **REPEAT**. The current repeat setting will appear.
- 2 Press **▽** or **△** to select **Off**, **All** or **1**.
- 3 Press **OK** or **RETURN**.
The setting is effective until the TV is turned off.

File Compatibility:

File format: MP3

Sampling frequency: 16 kHz, 22.05 kHz, 24 kHz,
32 kHz, 44.1 kHz, 48 kHz

Bit rate: from 8 to 320kbps

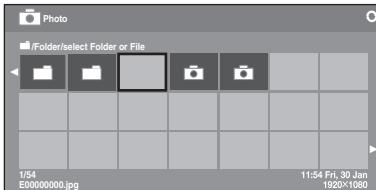
Total number of files: Less than 500 per folder

MP3 (MPEG Layer-3) audio coding technology licensed from Fraunhofer IIS and Thomson.

Viewing JPEG files

To view in Single View mode:

- When the thumbnail window appears after starting the Media Player (page 42), press ∇ , Δ , \leftarrow or \rightarrow to select a file or folder.
If there are more pages in the list, press $\text{P}\wedge$ or $\text{P}\vee$ to move to the previous or next page.



- Press OK to begin viewing the selected file or to move to the next layer.
Press RETURN to return to the previous layer.
- Press \rightarrow to view the next file, or press \leftarrow to view the previous file.

Note:

If the previous or next file is not compatible, it will be skipped automatically.

To view in Slide Show mode:

- To switch to Slide Show mode, press OK during Single View mode.
To return to Single View mode, press OK again.
- Press \rightarrow to view the next file, or press \leftarrow to view the previous file.
Note:
If the previous or next file is not compatible, it will be skipped automatically.
- Press OK to return to Single View mode.

To set the Slide Show mode settings:

- Press OK during Slide Show mode.
- Press ∇ or Δ to highlight the item (Interval Time or Repeat).
- Press \leftarrow or \rightarrow to adjust the setting.
- Press OK or RETURN to return to Slide Show mode.

Item	Description
Interval Time	To set a time interval to view photos (3sec, 5sec, 10sec, 15sec, 30sec, 60sec, or 90sec).
Repeat	To display photos in the same directory repeatedly. On/Off

To rotate the image:

While viewing the image in Single View mode, press Δ to rotate the image 90 degrees clockwise, press ∇ to rotate the image 90 degrees counterclockwise.

To return to the thumbnail window:

Press RETURN during Single View mode or Slide Show mode.

To display file status information:

- Press INFO . The following information will be displayed at the bottom of the screen.
 - File number/Total number of files (only for files stored in the same directory)
 - Photo title
 - Date and time taken
 - File size
 - Slide Show icon (if applicable)
 - Repeat play icon (if applicable)
 - Operation guide
- Press INFO again to remove the information from the screen.

Note:

The file status information will disappear after about 6 seconds.

File Compatibility :

Data compatibility: JPEG Exif ver 2.2

File format: DCF ver 1.1

Maximum viewable resolution: 16384 × 16384 pixels
(Total number of pixels: 10,000,000)

Maximum photo size: 9 MB

Total number of files: Less than 2000 per folder

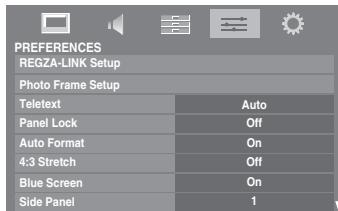
Using the Photo Frame feature

- You can use the TV screen as a digital picture frame. One image (pre-installed or user-installed) can be displayed. Date and time information can also be superimposed, if desired.
- You can overwrite the pre-installed file with a file from your USB storage device or SD memory card.

To open Photo Frame

Open from Menu

- 1 Press **MENU**, and then \triangleleft or \triangleright to select the **PREFERENCES** menu.



- 2 Press ∇ to select **Photo Frame Setup**, and then press **OK**. The preview screen will appear.



- 3 Press \triangleright to select **Start**, and then press **OK** to open Photo Frame.



Open from Quick Menu

- 1 Press **QUICK** to open the **QUICK MENU**.
- 2 Press ∇ or \triangle to select **Photo Frame**, and then press **OK** to open **Photo Frame**.

To close Photo Frame

- 1 Press **EXIT**.

Setting the features

In the preview screen, you can set various settings for Photo Frame.

Photo Select

- 1 From the **Photo Frame Setup** menu, press ∇ or \triangle to select **Photo Select**, and then press **OK**.



- 2 If the device selection screen appears, press ∇ or \triangle to select the appropriate device, and then press **OK**.
- 3 Press ∇ , \triangle , \triangleleft or \triangleright to select the photo you want to copy from the USB storage device or SD memory card to the TV's flash memory, and then press **OK**.



Photo Edit

- Press ∇ or Δ to select **Photo Edit**, and then press **OK**.
- Press ∇ or Δ to select **Rotate** or **Delete**.



- Set the following items as desired.

Rotate : Press **OK** to rotate the image 90° clockwise.

Delete : Press \triangleleft or \triangleright to select **YES**, and then press **OK**.

- Press **OK**.

Settings

- Press ∇ or Δ to select **Settings**, and then press **OK**.
- Press ∇ or Δ to select **Clock**, **Position** or **Auto Power Off**.



- Set the following items as desired.

Clock : Press \triangleleft or \triangleright to select **Off**, **Digital Clock**, **Analogue Clock** or **Analogue + Digital**.

Position : Press \triangleleft or \triangleright to select **Left** or **Right**.

Auto Power Off : Press \triangleleft or \triangleright to select **Off**, **00:30**, **01:00**, **02:00**, **04:00**, **06:00** or **12:00**.

If Photo Frame is started and left active, the TV will automatically turn off after the set length of time (maximum 12 hours).

- Press **OK**.

- Select **Start**, and then press **OK**.



Notes:

- The photo and settings items are moved by 4 dots every 5 minutes to prevent screen burn-in.
- The pre-installed photo file is stored in the TV's flash memory before shipment.

APPENDIX

AUSTRALIAN PARENTAL GUIDANCE CODES (Normative)

Recommended On-Screen-Display for parental guidance codes transmitted within DVB-SI EIT information using the DVB parental_rating_descriptor.

			Receiver Menu Set-up and Suggested OSD wording for Setting Blocking (Restriction of access)							
			Block All	Block G and above (optional)	Block PG and above	Block M and above	Block MA and above	Block AV and above	Block R and above	No Block
Transmitted rating hex code	Australian parental guide code	On-Screen-Display	Resultant receiver action to received hex code ✓ is show programme - X is block until PIN entered							
0 × 00	Not Classified	-	X	✓	✓	✓	✓	✓	✓	✓
0 × 01		-	X	✓	✓	✓	✓	✓	✓	✓
0 × 02	P Pre school	P	X	✓	✓	✓	✓	✓	✓	✓
0 × 03		P	X	✓	✓	✓	✓	✓	✓	✓
0 × 04	C Children's	C	X	✓	✓	✓	✓	✓	✓	✓
0 × 05		C	X	✓	✓	✓	✓	✓	✓	✓
0 × 06	G General	G	X	X	✓	✓	✓	✓	✓	✓
0 × 07		G	X	X	✓	✓	✓	✓	✓	✓
0 × 08	PG Parental Guidance Recommended	PG	X	X	X	✓	✓	✓	✓	✓
0 × 09		PG	X	X	X	✓	✓	✓	✓	✓
0 × 0A	M Mature Audience 15+	M	X	X	X	X	✓	✓	✓	✓
0 × 0B		M	X	X	X	X	✓	✓	✓	✓
0 × 0C	MA Mature Adult Audience 15+	MA	X	X	X	X	X	✓	✓	✓
0 × 0D		MA	X	X	X	X	X	✓	✓	✓
0 × 0E	AV Adult Audience, Strong violence 15+	AV	X	X	X	X	X	X	✓	✓
0 × 0F	R Restricted 18+	R	X	X	X	X	X	X	X	✓

Specifications

Integrated Digital LCD TV

Model

42XV600A, 46XV600A, 52XV600A

Power source

220 V-240 V AC, 50 Hz

Power consumption

42XV600A : 146 W, 0.6 W (standby)

46XV600A : 224 W, 0.6 W (standby)

52XV600A : 314 W, 0.6 W (standby)

Dimensions

42XV600A : 1,009 mm (W) 694 mm (H) 308 mm (D)

46XV600A : 1,108 mm (W) 746 mm (H) 308 mm (D)

52XV600A : 1,252 mm (W) 839 mm (H) 328 mm (D)

Mass (Weight)

42XV600A : 23.0 kg

46XV600A : 26.5 kg

52XV600A : 35.5 kg

Analogue TV system (Aerial input)

Channel Coverage:

PAL	B/G	(CCIR)	VHF	2 - 12
			UHF	21 - 69
			CATV	X - Z+2, S1 - S41
PAL	I	(UK)	VHF	-
			UHF	21 - 69
			CATV	-
PAL D/K (CHINA)			VHF	1 - 12
			UHF	13 - 57
			CATV	Z1 - Z38
SECAM	B/G	(CCIR)	VHF	2 - 12
			UHF	21 - 69
			CATV	X - Z+2, S1 - S41
SECAM	D/K	(OIRT)	VHF	1 - 12
			UHF	21 - 69
			CATV	X1 - X19

Special RF signal:

NTSC 4.43 colour system 5.5/6.0/6.5 MHz sound system

PAL 60 Hz colour system 5.5/6.0/6.5 MHz sound system

Digital TV System

Compliant Standard	DVB-T
Video Decoding	MP @ ML & MP @ HL
Audio Decoding	Dolby® Digital, MPEG (I & II)
Audio Sampling Rate	32, 44.1, 48 kHz

Digital TV Terrestrial Tuner / Demodulator

Frequency	51~858 MHz
Loop Through	51~858 MHz
Bandwidth	6, 7, 8 MHz
Demodulator	COFDM
FFT Mode	2K, 8K
Constellation	QPSK, 16QAM, 64 QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
Inner Coding Rate	1/2, 2/3, 3/4, 5/6, 7/8

COMPONENT VIDEO INPUT terminals (the signal format)

480i, 480p, 576i, 576p, 720p (50/60 Hz), 1080i (50/60 Hz)

(These signal formats are converted to match the number of pixels of the LCD panel.)

Colour system (analogue TV system)

PAL, SECAM, NTSC 3.58/4.43

Aspect ratio

16 : 9

Visible size (diagonal)

42XV600A : 106.7 cm

46XV600A : 116.8 cm

52XV600A : 132.1 cm

Number of pixels

1,920 (H) dots × 1,080 (V) dots

Audio power

10 W + 10 W

Speakers

Main 35 × 160 mm 2 pcs.

Input/Output terminals

⊖(1)	Input	
	Phono jacks	A/V
⊖(2)	Input	
	4 pin	S-video
	Phono jacks	A/V
⊖(3)	Input	
	Component video	Y, Pb/C _B , Pr/C _R
	Phono jacks	Audio L/Mono + R
⊖(4)	Input	
	Component video	Y, Pb/C _B , Pr/C _R
	Phono jacks	Audio L/Mono + R
⊖MONITOR	Output	
	Phono jacks	A/V
⊖WOOFER	Output	
	Phono jack	Bass Line out (Variable)
⊖RGB/PC	Input	
	Mini D-sub 15 pin Analogue RGB	
⊖PC/HDMI 1 (AUDIO)	Input	
	3.5 mm (Diameter) stereo	
⊖HDMI 1	Input (type A)	
	19 pin	A/V Digital
⊖HDMI 2	Input (type A)	
	19 pin	A/V Digital
⊖HDMI 3	Input (type A)	
	19 pin	A/V Digital
⊖HDMI 4	Input (type A)	
	19 pin	A/V Digital
	V.1.3a with Lip Sync, INSTAPORT™ and RGB Range	
⊖Digital Audio (optical)	Output	
	Bitstream/PCM	
Headphone jack	3.5 mm (Diameter) stereo	

Operating condition

Temperature	0 °C - 35 °C
Humidity	20 % - 80 % (No moisture condensation)

Supplied accessories

Owner's manual (1), Remote control (1), Batteries (2),
Clip (1), Cleaning cloth(1)



This is used to fix the TV to a wall, pillar, etc.
(☞ page 4).

- Design and specifications are subject to change without notice.
- Never service or remodel the TV by yourself. It may expose you to a fire hazard or dangerous voltages.

TOSHIBA CORPORATION